EOS System Message Guide

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Chapter 1

System Message Overview

1.1 Message Format

System Messages on EOS have the following format:
timestamp hostname process: [seq_number:] %FACILITY-Severity-Mnemonic: Message text
Here's an explanation of each of the fields:

timestamp This is the time the message was generated. The time is obtained from the clock on the switch. (You should configure the clock to get an accurate timestamp, or use NTP)

hostname The hostname is the system name configured for the switch

process The process is the system process that generated the message

seq_number The sequence number of the message. The generation of sequence numbers is an optional configuration, and is disabled by default. The configuration command to generate sequence numbers is *[no] service sequence-numbers*

FACILITY The Facility that generated the syslog message. These are the various modules used internally to manage all the functionality of the device

Severity A number from 1 through 7, indicating the severity of the message. 1 is most severe, and 7 is the least severe. See the section below to see a detailed description of severity levels

Mnemonic This is a mnemonic code that uniquely identifies the message. Mnemonic codes are all upper case character strings

Message text This is the text of the system message containing details of the event. Some messages have variable fields in the message, which may contain MAC addresses, interfaces names, etc

1.2 Severity Levels

The severity of a system message varies from 0 through 7. The lower the severity, the higher the criticality of the message. The different severity levels are described below.

Severity	Description
0	Emergency - system cannot be used. Immediate administrator attention is required
1	Alert - not used. We use severity level Emergency for critical messages
2	Critical - not used. We use severity level Emergency for critical messages
3	Error - the system has encountered an error. The message details help describe the urgency
4	Warning - something may be wrong, or misconfigured. No immediate attention is required, although further investigation is required
5	Notice - not used. We use severity level Information instead.
6	Information - informational message about the system. Provides changes in operational status
7	Debug - used for aiding in troubleshooting. This could produce excessive output and should not be used without discussing with your technical support representative

Chapter 2

System Messages

2.1 AAA Messages

ACCT_FALLBACK: Accounting method '%s' is currently unavailable; falling back to next method for action '%s'.
Severity: Warning
Explanation: The accounting method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.
Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_DROP: No available server; accounting messages will be dropped.
Severity: Warning
Explanation: None of the accounting servers are responsive, and the switch will drop messages until the error is rectified.
Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_RESUME: Resumed successful sending of accounting messages.
Severity: Warning
Explanation: Accounting message successfully sent as the switch is able to contact the accounting server(s).
Recommended Action: No action is required – this message is for information only.

ACCT_PLUGIN_NOT_READY: Accounting method '%s' is not ready
Severity: Warning
Explanation: Accounting an action using this accounting method failed because the method is not ready. This can occur if the method has not been fully configured.
Recommended Action: Check to see if the accounting method has been configured.

ACCT_QUEUE_FULL: Accounting queue is full; the oldest %d messages will be dropped.
Severity: Warning
Explanation: There were too many messages in the accounting queue, and the switch discarded some pending messages to avoid consuming too many resources. It normally means that the server was slow at taking the accounting messages.
Recommended Action: Check the availability and reachability of the accounting server(s).

AUTHN_FALLBACK: Authentication method '%s' is currently unavailable; falling back to next method for service '%s'.
Severity: Warning
Explanation: The authentication method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.
Recommended Action: Check the availability and reachability of the authentication server(s).

AUTHN_PLUGIN_NOT_READY: Authentication method '%s' is not ready
Severity: Warning
Explanation: Authenticating a user with this authentication method failed because the method is not ready. This can occur if the method has not been fully configured.
Recommended Action: Check to see if the authentication method has been configured.

AUTHZ_FALLBACK: Authorization method '%s' is currently unavailable; falling back to next method for action '%s'.
Severity: Warning
Explanation: The authorization method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.
Recommended Action: Check the availability and reachability of the authorization server(s).

AUTHZ_PLUGIN_NOT_READY: Authorization method '%s' is not ready
Severity: Warning
Explanation: Authorizing an action using this authentication method failed because the method is not ready. This can occur if the method has not been fully configured.
Recommended Action: Check to see if the authorization method has been configured.

CMD_AUTHZ_FAILED: User %s failed authorization to execute command '%s'
Severity: Warning
Explanation: AAA denied authorization for the specified command.
Recommended Action: Confirm that the user settings on authorization server(s) are correct.

EXEC_AUTHZ_FAILED: User %s failed authorization to start a shell
Severity: Warning
Explanation: AAA server denied authorization to start a shell.
Recommended Action: Confirm that the user settings on authorization server(s) are correct.

HOMEDIR_SETUP_ERROR: A problem occurred setting up the home directory for user %s
Severity: Warning
Explanation: AAA creates a home directory at the time of a user's first login and may populate it with some settings files. A problem occurred during this process, and the user's home directory may not have been created or may be partially populated.
Recommended Action: Log out and log back in. Contact your support representative if error persists.

INCOMPLETE_LOGINS_LIMIT: Too many incomplete login attempts
Severity: Error
Explanation: AAA has received too many incomplete login attempts within the last 5 minutes. Login via console is available, but login via ssh or telnet may fail until some of the incomplete login sessions expire.
Recommended Action: Investigate whether the device is being attacked. Attempt login via the console. Contact your support representative if error persists.

INVALID_ACCT_METHODLIST: Invalid accounting method list configured for action '%s': method '%s' is unknown
Severity: Error
Explanation: An attempt to account for an action failed because the method list configured for the action contains a method name that does not match any available accounting plugins.
Recommended Action: Fix the method list configuration.

INVALID_AUTHENTYPE: Invalid authentication type '%s' requested
Severity: Error
Explanation: AAA received an authentication request containing an unknown authentication type.
Recommended Action: Contact your support representative if error persists.

INVALID_AUTHN_METHODLIST: Invalid authentication method list configured for service '%s': method '%s' is unknown
Severity: Error
Explanation: An attempt to authenticate a user for the service failed because the method list configured for the service contains a method name that does not match any available authentication plugins.
Recommended Action: Fix the method list configuration.

INVALID_AUTHZ_METHODLIST: Invalid authorization method list configured for action '%s': method '%s' is unknown
Severity: Error
Explanation: An attempt to authorize an action failed because the method list configured for the action contains a method name that does not match any available authorization plugins.
Recommended Action: Fix the method list configuration.

INVALID_RADIUS_SERVER: RADIUS server '%s' port %d could not be used: %s
Severity: Warning
Explanation: The configuration contains a RADIUS server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.
Recommended Action: Correct the RADIUS server configuration.

INVALID_REGEX_IN_ROLE: Rule %d of Role %s has an invalid regular expression
Severity: Error
Explanation: The specified rule has an invalid regular expression, and will not take effect until the syntax is fixed.
Recommended Action: Fix the role configuration.

INVALID_TACACS_SERVER: TACACS+ server '%s' port %d could not be used: %s
Severity: Warning
Explanation: The configuration contains a TACACS+ server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.
Recommended Action: Correct the TACACS+ server configuration.

LOGIN: user %s logged in [from: %s] [service: %s]
Severity: Notice
Explanation: A user has logged in successfully
Recommended Action: No action is required – this message is for information only.

LOGIN_FAILED: user %s failed to login [from: %s] [service: %s] [reason: %s]
Severity: Warning
Explanation: A user has failed to login to the switch
Recommended Action: No action is required – this message is for information only.

LOGOUT: user %s logged out [from: %s] [service: %s]
Severity: Notice
Explanation: A user has logged out or the session has terminated
Recommended Action: No action is required – this message is for information only.

NO_VALID_RADIUS_SERVERS: No valid RADIUS servers for method list '%s'
Severity: Error
Explanation: The configuration contains an authentication method list that is not associated with any valid RADIUS servers. One common cause for this error is a hostname for which DNS resolution fails.
Recommended Action: Correct the RADIUS server configuration.

NO_VALID_TACACS_SERVERS: No valid TACACS+ servers for method list '%s'
Severity: Error
Explanation: The configuration contains an authentication method list that is not associated with any valid TACACS+ servers. One common cause for this error is a hostname for which DNS resolution fails.
Recommended Action: Correct the TACACS+ server configuration.

REMOTE_LOGIN_DENIED_BY_POLICY: Remote login from %s denied for user %s due to authentication policy
Severity: Warning
Explanation: A remote login attempt was denied due to authentication policy. For example, the configured policy may prohibit remote logins for accounts with empty passwords.
Recommended Action: No action is required – this message is for information only.

ROOT_PASSWORD_NOTUPDATED: Password setting for root not changed due to internal error (%s)
Severity: Warning
Explanation: The password for the root user could not be changed from its current value. The old password (if any) continues to be valid for the account. This is a potential security risk.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSHKEY_FILESYSTEM_ERROR: Error generating ssh key file at path %s: %s
Severity: Error
Explanation: An ssh key creation attempt failed because of a filesystem error.
Recommended Action: Check to see if the filesystem has run out of disk space. (Potentially from large log files) Contact TAC Support if this problem persists

UNKNOWN_RADIUS_SERVER: RADIUS server group '%s' references unknown server '%s'
Severity: Warning
Explanation: The RADIUS server group contains a server that was not configured using the 'radius-server host' command.
Recommended Action: Configure the unknown server or remove it from the server group.

UNKNOWN_TACACS_MANDATORY_ATTRIBUTE: Received unknown mandatory attribute '%s' from Tacacs+ server
Severity: Error
Explanation: The authorization response from tacacs server includesone or more mandatory attributes we donot support;failing authorization.
Recommended Action: Change the TACACS+ server configuration.

UNKNOWN_TACACS_SERVER: TACACS+ server group '%s' references unknown server '%s'
Severity: Warning
Explanation: The TACACS+ server group contains a server that was not configured using the 'tacacs-server host' command.
Recommended Action: Configure the unknown server or remove it from the server group.

2.2 ACCOUNTING Messages

CMD: %s task_id=%d start_time=%d timezone=%s service=%s priv-lvl=%d cmd=%s
Severity: Info
Explanation: Command accounting message.
Recommended Action: No action is required – this message is for information only.

EXEC: %s task_id=%d start_time=%d timezone=%s service=%s%s
Severity: Notice
Explanation: Exec accounting message.
Recommended Action: No action is required – this message is for information only.

SYSTEM: %s task_id=%d start_time=%d timezone=%s service=%s event=%s reason=%s
Severity: Notice
Explanation: System accounting message.
Recommended Action: No action is required – this message is for information only.

2.3 ACL Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to program all ACLs (%s)
Severity: Error
Explanation: The switch is unable to program all ACLs due to insufficient hardware resources.
Recommended Action: Reconfigure your ACLs to reduce the size and/or complexity of the ACL.

HW_RESOURCE_NORMAL: All ACLs are programmed in hardware (%s)
Severity: Error
Explanation: The switch was able to program all the ACLs in the hardware.
Recommended Action: No action is required – this message is for information only.

IP6ACCESS: list %s %s %s %s %s -¿ %s%s
Severity: Info
Explanation: A packet has matched one of the rules with 'log' option in the specified IPv6 access-list.
Recommended Action: No action is required – this message is for information only.

IPACCESS: list %s %s %s %s
Severity: Info
Explanation: A packet has matched one of the rules with 'log' option in the specified IP access-list.
Recommended Action: No action is required – this message is for information only.

IPV6_ERACL_ROUTEDPORT: The IPv6 Egress ACL that was applied to interface %s will now be installed
Severity: Info
Explanation: IPv6 Egress ACLs on routed ports are supported. Since the interface has become a routed port, the previously configured IPv6 Egress ACL will now be installed
Recommended Action: No action is required – this message is for information only.

IPV6_ERACL_SWITCHPORT: The IPv6 Egress ACL applied to switchport %s will not be installed until the switchport is converted to a routed port
Severity: Info
Explanation: IPv6 Egress ACLs on switch (non-routed) ports are not yet supported but the user configuration will be stored. The ACL will become active when the interface is changed to a routed interface
Recommended Action: No action is required – this message is for information only.

IPV6_RACL_DSCP: IPv6 ACLs with DSCP will not be applied to VLAN interfaces
Severity: Info
Explanation: This platform does not support the application of IPv6 ACLs with DSCP to VLAN interfaces
Recommended Action: No action is required – this message is for information only.

MACACCESS: list %s %s %s %s %s -¿ %s %s
Severity: Info
Explanation: A packet has matched one of the rules with 'log' option in the specified MAC access-list.
Recommended Action: No action is required – this message is for information only.

2.4 AGENT Messages

EXCESSIVE_WARMUP_DELAY: Agent %s experiencing excessive warmup delay
Severity: Warning
Explanation: The agent is taking an excessive amount of time to reach steady state, meaning declare itself operating consistently with its configuration, and may be hung.
Recommended Action: If the problem persists, try killing the agent and letting ProcMgr restart it by dropping into bash mode, using ps(1) to find the process, and sending it SIGTERM or SIGKILL with kill(1).

SOCKET_COMMAND_ERROR: Error (%s) on command execution
Severity: Warning
Explanation: Unexpected error caught during the execution of the command.
Recommended Action: No action is required – this message is for information only.

SOCKET_INVALID_DESCRIPTOR: Invalid socket request call
Severity: Warning
Explanation: Bad file descriptor received.
Recommended Action: No action is required – this message is for information only.

SWITCHOVER_DURING_INIT: Agent %s is exiting because switchover happened during initialization
Severity: Warning
Explanation: The agent is exiting because switchover just happened while it is still initializing. It will restart and operate normally.
Recommended Action: No action is required – this message is for information only.

WARM_AFTER_EXCESSIVE_DELAY: Agent %s warm after excessive delay
Severity: Warning
Explanation: The agent took an excessive amount of time to reach steady state, but now it appears to be operating normally.
Recommended Action: No action is required – this message is for information only.

2.5 ARP Messages

RELOAD_HITLESS_NEIGHBOR_STATE_RESTORATION_TIMEOUT: Failed to restore state for %d ARP and IPv6 Neighbor entries.
Severity: Warning
Explanation: This may result in some traffic disruption during the hitless reload.
Recommended Action: No action is required – this message is for information only.

2.6 BFD Messages

INTERFACE_NOENT: Invalid BFD peer Request by protocol: %s for peer: %d. No such interface
Severity: Error
Explanation: A Bfd application has requested a Bfd peer add for an interface that does not exist
Recommended Action: No action is required – this message is for information only.

STALE_APP_REG: Bfd registration already present for peer: %s, app: %s
Severity: Warning
Explanation: Trying to add a duplicate Bfd peer request for an application
Recommended Action: No action required

STATE_CHANGE: peer %s changed state from %s to %s
Severity: Notice
Explanation: Peer's BFD state has changed
Recommended Action: No action required

VRF_UNSUPPORTED: Enabling BFD for %s, VRF: %s not supported
Severity: Error
Explanation: Enabling BFD on non-default VRF not supported
Recommended Action: Undo BFD enabling config on non-default VRF

2.7 BGP Messages

ADJCHANGE: peer %s old state %s event %s new state %s
Severity: Notice
Explanation: The given peer has moved into or out of the Established state. If it is not Established, then route exchange with the BGP peer is not possible.
Recommended Action: If the peering has gone down unexpectedly, check the physical connection between the devices and the configuration of the system, including IP and BGP, on both ends.

CONVERGED: BGP in VRF %s has converged and its routes are in FIB
Severity: Notice
Explanation: BGP has converged after listening to updates from peers if any and is now ready to advertise best path routes to peers
Recommended Action: No action is required – this message is for information only.

GRACEFUL_RESTART_TIMEOUT: Deleting stale routing information from peer %s.
Severity: Notice
Explanation: Session with graceful restarting speaker has not been established within the advertised restart time. Deleting the routes from this peer.
Recommended Action: Check to see why the peer session did not get re-established.

IF_MAXROUTESLIMIT: Peer %s has exceeded its configured maximum total number of routes (%d); Put into idle state forever
Severity: Notice
Explanation: BGP has received more routes than it is configured to handle from this BGP peer. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.
Recommended Action: Determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit. After taking either of these actions issue the 'clear ip bgp *—¡peer¿' command, to reset the BGP peer connection.

IF_MAXROUTESRECOVER: Peer %s has managed to drop below its configured maximum total number of routes (%d); routing information is no longer being lost
Severity: Notice
Explanation: The number of routes from this BGP peer is now below the limit, and we are exchanging routing information with the peer, again.
Recommended Action: Determine why the number of shared routes exceeded maximum-routes limit in the first place.

IF_MAXROUTESRESTART: Peer %s has exceeded its configured maximum total number of routes (%d); In idle state; will restart in %d minutes
Severity: Notice
Explanation: BGP has received more routes than it is configured to handle from this BGP peer. Routing information may be incomplete, and may get further out of date. Route information is no longer being exchanged with peer, so no route deletions or additions will occur until the peer connection is restarted.
Recommended Action: Determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit. Until you take one of these actions the BGP peer connection will continue to get into this state and will continue to be cleared periodically.

IF_MAXROUTESWARNING: Peer %s has exceeded its configured maximum total number of routes (%d); ROUTING INFORMATION IS BEING LOST
Severity: Notice
Explanation: BGP has received more routes than it is configured to handle from this BGP peer. Routing information may be incomplete, and may get further out of date. New routes will no longer be added until enough routes are deleted to fall below this limit.
Recommended Action: If this warning persists, then determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit.

MAXROUTES: BGP has exceeded its configured maximum total number of routes (%d); ROUTING INFORMATION IS BEING LOST
Severity: Notice
Explanation: BGP has received more routes than it is configured to handle. It will not accept any more routes. Routing information may be incomplete, and may get further out of date.
Recommended Action: Determine whether the number of shared BGP routes is reasonable. Then, either reduce the number of routes being shared by your BGP peers, or increase the maximum-routes limit. After taking either of these actions issue the 'clear ip bgp *—¡peer¿' command, to reset the BGP peer connection.

NOTIFICATION: received from/sent to neighbor %s %d/%d (%s/%s) %d bytes
Severity: Warning
Explanation: A BGP notification message of length bytes was seen from/to the given neighbor, with code/subcode (string names s/s).Such messages notify a peer either about errors in the BGP session or (in the case of CEASE (ErrorCode=6)) request the session to terminate. If an Error notification is received, this message means a neighbor believes this machine sent an invalid BGP message.If sent, this message means this machine believes that a neighbor sent an invalid BGP message. Either the message was malformed, or it arrived at a time when it was not expected.
Recommended Action: Some messages (such as 'cease') require no action. Error messages (such as 'Message Header Error') can be symptomatic of some other BGP error. The data printed in the BGP-NOTIFICATION log entry may help a technical support person determine the underlying error.

PEER_CLEAR: BGP peering with %s was reset by %s on %s (%s)
Severity: Notice
Explanation: BGP peering was reset by CLI command
Recommended Action: No action is required – this message is for information only.

2.8 BIDIR Messages

RPA_RESOURCE_FULL: RPA used in Pim bidirectional has exceeded the limit.
Severity: Error
Explanation: Please make sure the number of RP used for Pim Bidirectional from BSR and static RP configuration are not exceeding the limit.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.9 CAPACITY Messages

UTILIZATION_HIGH: %s table utilization is currently at %d%%, crossed threshold %d%%
Severity: Alert
Explanation: The hardware table utilization has crossed the configured alert threshold value and may be reaching its maximum limit
Recommended Action: Check the utilization of hardware table resources using ”show hardware capacity” and remove unwanted entries / configuration to free up space

UTILIZATION_NORMAL: %s table utilization is back to normal
Severity: Alert
Explanation: The hardware table utilization has come below the configured alert threshold value
Recommended Action: No action is required – this message is for information only.

2.10 CAPI Messages

CERTIFICATE_CONFIGURATION_CONFLICT: Certificate/key pair in the SSL Profile will not be used
Severity: Warning
Explanation: A server certificate is configured in HTTPS config.Only one server certificate can be configured at a time.
Recommended Action: Remove the server certificate in HTTPS configwith 'no protocol https certificate' in 'management apihttp-commands'

RESET_DIFFIE_HELLMAN_PARAMETERS_FAILED: Couldn't reset diffie-hellman parameters
Severity: Warning
Explanation: Attempt to generate new Diffie-Hellman parameters has failed. Existing diffie-hellman parameters will be used.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.11 CARD Messages

NOT_COMPATIBLE: %s (%s) is not supported because %s.
Severity: Error
Explanation: In the current configuration, this card is incompatible.
Recommended Action: Change configuration using 'platform sand {fabric—forwarding} mode ¡mode¿', save configuration and reboot the system

2.12 CLEAR Messages

COUNTERS: Clear %scounters %sby %s on %s (%s)
Severity: Notice
Explanation: Counter was cleared by CLI command
Recommended Action: No action is required – this message is for information only.

2.13 DATAPLANE Messages

COUNTER_RESOURCE_CONFLICT: counter resource conflict between %s and %s
Severity: Warning
Explanation: %s and %s are mutually exclusive, only one of them can be enabled
Recommended Action: use counter feature command to enable only one of the features

COUNTER_RESOURCE_FULL: Hardware resources are insufficient to enable counter for feature %s
Severity: Warning
Explanation: The switch is unable to program counter features %s due to insufficient hardware resources.
Recommended Action: Use counter feature command to disable some features

CUT_THROUGH_DISABLED: Forwarding mode restricted to store-and-forward due to VXLAN and 1G interfaces
Severity: Warning
Explanation: Cut-through forwarding mode is not supported when there are 1G interfaces and VXLAN is configured
Recommended Action: No action is required – this message is for information only.

CUT_THROUGH_ENABLED: Forwarding mode no longer restricted to store-and-forward due to VXLAN and 1G interface
Severity: Warning
Explanation: Forwarding mode no longer restricted to store-and-forward due to VXLAN and 1G interface. Switching to cut-through (default) if the forwarding mode is not configured
Recommended Action: No action is required – this message is for information only.

MACTABLEENTRYCLEAR: Mac Table overflow condition for multicast group %s in VLAN %d has cleared
Severity: Warning
Explanation: The entry has been programmed and traffic should not flood for this group
Recommended Action: Okay to use this IP multicast group

MIRROR_SESSION_RESOURCES_FULL: Mirroring hardware resources are insufficient to program the mirror session %s.
Severity: Error
Explanation: The switch is unable to program the mirroring session due to the unavailability of hardware resources. The maximum mirror sessions limit has been exceeded. As a result this mirroring session is not operational.
Recommended Action: To solve this issue, remove a mirroring session or unconfigure a feature that is using a mirror session.

MIRROR_SOURCE_RESOURCES_FULL: Insufficient hardware resources to add interface %s as a mirror source
Severity: Warning
Explanation: Insufficent hardware resources are available to program interface %s as a source to session %s. There is a maximum of %d bidirectional sources or %d unidirectional sources and this limit has been exceeded. As a result traffic on this interface shall not be mirrored.
Recommended Action: Use fewer mirror sources across the switch.

MIRROR_SOURCE_RESOURCES_NORMAL: All mirror sources are programmed in hardware.
Severity: Warning
Explanation: The switch was able to program all sources in hardware.
Recommended Action: Normal mirroring has resumed.

MULTICASTGROUPCLEAR: The condition of having insufficient hardware resources for programming a forwarding entry for the multicast group %s in VLAN %d has cleared
Severity: Warning
Explanation: Traffic sent to this multicast group will be forwarded only to ports belonging to this group
Recommended Action: Okay to use this IP multicast group.

NOMACTABLEENTRIES: Unable to program mac table entry for MAC address %s in VLAN %d due to hardware resource exhaustion
Severity: Warning
Explanation: The specified MAC address could not be programmed into the switching ASIC due to hash collisions in a bucket. Packets destined to the address will be flooded.
Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. 4. Use fewer IP multicast groups.

NOMULTICASTGROUPS: Insufficient hardware resources for multicast group %s in VLAN %d
Severity: Warning
Explanation: Insufficient hardware resources are available to program a forwarding entry for the multicast group, which was learned via IGMP Snooping or static MAC table configuration. There is a limit of %d (group address, VLAN) pairs, and this limit has been exceeded. As a result, traffic sent to this multicast group will be forwarded to all ports.
Recommended Action: Use fewer IP multicast groups.

STORMCONTROLLERTCAMCLEAR: TCAM overflow condition for StormController setting on Unit %d Port %d has cleared
Severity: Warning
Explanation: The StormController setting has been programmed and traffic should be controlled
Recommended Action: Okay to rely on StormController for this port

STORMCONTROLLERTCAMFULL: Unable to find TCAM entry to set stormController on Unit %d Port %d
Severity: Warning
Explanation: The stormController setting can't be programmed into the switching ASIC due to exhaustion of TCAM entries. Rate can't be controlled for this port for now
Recommended Action: Reduce the number of TCAM entries that are programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of ACLs. 2. Use fewer StormController settings.

2.14 DOT1X Messages

ACCT_FALLBACK: Accounting method '%s' is currently unavailable; falling back to next method.
Severity: Warning
Explanation: The accounting method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.
Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_DROP: No available server; accounting message has been dropped.
Severity: Warning
Explanation: None of the accounting servers are responsive, and the switch has dropped the message.
Recommended Action: Check the availability and reachability of the accounting server(s).

AUTHN_FALLBACK: Authentication method '%s' is currently unavailable; falling back to next method.
Severity: Warning
Explanation: The authentication method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.
Recommended Action: Check the availability and reachability of the authentication server(s).

DUPLICATE_SUPPLICANT: Supplicant with MAC %s authenticated on port %s attempted to communicate using the 802.1X protocol on another port %s.
Severity: Error
Explanation: An authenticated supplicant appeared on another port.
Recommended Action: The supplicant will need to log off on former port in order to log on another port

INVALID_RADIUS_SERVER: RADIUS server '%s' port %d could not be used: %s
Severity: Warning
Explanation: The configuration contains a RADIUS server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.
Recommended Action: Correct the RADIUS server configuration.

NO_AUTHN_METHODLIST: No authentication method list configured for 802.1x
Severity: Error
Explanation: An attempt to authenticate a port failed because there is no authentication method list configured for 802.1x.
Recommended Action: Add an authentication method list for 802.1x.

NO_VALID_RADIUS_SERVERS: No valid RADIUS servers for method list '%s'
Severity: Error
Explanation: The configuration contains an authentication method list that is not associated with any valid RADIUS servers.
Recommended Action: Add at least one RADIUS server to the server group.

RADIUS_FRAMED_MTU_EXCEEDED: Received from RADIUS server '%s' a packet %d bytes long which exceeds the port Framed-MTU of %d bytes; Rejecting the Supplicant.
Severity: Error
Explanation: The RADIUS server did not honor the Frame-MTU attribute sent by the NAS.
Recommended Action: Either increase the MTU of the port which is to be authenticated, or configure the RADIUS server to honor the Frame-MTU attribute in an Access-Request packet.

SUPPLICANT_AUTHENTICATED: Supplicant with identity %s and MAC %s successfully authenticated on port %s.
Severity: Info
Explanation: A supplicant was successfully authenticated on a 802.1X enabled port.
Recommended Action: No action is required – this message is for information only.

SUPPLICANT_FAILED_AUTHENTICATION: Supplicant with identity %s and MAC %s failed authentication on port %s.
Severity: Error
Explanation: A supplicant attempted to authenticate using 802.1X but did not have the proper credentials.
Recommended Action: Verify the credentials the supplicant has for the identity it provided.

SUPPLICANT_LOG_OFF: Supplicant with identity %s and MAC %s has logged off of port %s.
Severity: Info
Explanation: A supplicant that was associated with an 802.1X port has logged off of it.
Recommended Action: No action is required – this message is for information only.

SUPPLICANT_MULTIPLE_SUPPLICANTS_COMMUNICATING: Supplicant with MAC %s on port %s attempted to communicate using the 802.1X protocol but MAC %s is already associated with this port.
Severity: Warning
Explanation: Only one MAC address can be associated with an 802.1X port at a time for communicating 802.1X operations.
Recommended Action: Investigate if the latter supplicant should be the one authenticating. The former supplicant will need to log off or time out to allow the latter supplicant to authenticate.

SUPPLICANT_TIMEOUT: Supplicant with identity %s and MAC %s timed out during authentication on port %s.
Severity: Warning
Explanation: A supplicant timed out during the authentication sequence on a 802.1X enabled port.
Recommended Action: Examine the authentication software used if this persists.

UNKNOWN_RADIUS_SERVER: RADIUS server group '%s' references unknown server '%s'
Severity: Warning
Explanation: The RADIUS server group contains a server that was not configured using the 'radius-server host' command.
Recommended Action: Configure the unknown server or remove it from the server group.

2.15 ENVMON Messages

CARDINSUFFICIENTFANSDETECTED: Too few working fans detected for %s. If not resolved, the card will be shut down in %d minutes.
Severity: Emergency
Explanation: Not enough fans of the correct type are functioning and this card will be shut down if the problem is not resolved.
Recommended Action: Check that all fans are inserted and still spinning, and replace and missing or broken fans immediately. Check that all fans are of the same type (i.e., front-to-back vs back-to-front airflow), and replace any differing fans immediately.

CARDINSUFFICIENTFANSSHUTDOWN: %s is being shutdown due to insufficient fans.
Severity: Emergency
Explanation: Too many fans have failed or are missing, or fans of incompatible types have been inserted. The card is being shut down to prevent damage.
Recommended Action: Replace the broken, missing, or incompatible fans immediately

CARDOVERHEATSHUTDOWN: %s temperature critical and is being shutdown
Severity: Emergency
Explanation: The specified card has surpassed its critical temperature and is being shutdown to prevent damage to the hardware.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

CARDOVERHEATWARNING: %s is overheating
Severity: Emergency
Explanation: The specified card has begun to overheat. If the card continues to heat up, it will be shutdown to prevent damage to the hardware
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

CARDSUFFICIENTFANSRESTORED: Sufficient fans restored for %s.
Severity: Emergency
Explanation: Previously missing, failed, or incompatible fans have been replaced. The card has enough fans to function properly and will not be shut down
Recommended Action: No action is required – this message is for information only.

CARDTEMPNORMAL: %s temperature has returned to normal
Severity: Emergency
Explanation: The specified card was overheating but has now returned to a normal operating temperature.
Recommended Action: No action is required – this message is for information only.

FABRIC_MISSING: %d fabric card(s) missing.
Severity: Emergency
Explanation: The specified number of fabric cards are missing from the system.
Recommended Action: Insert the missing fabric cards.

FANFAILED: %s failure detected
Severity: Error
Explanation: The specified fan has failed or been removed.
Recommended Action: Replace the specified fan as soon as possible

FANOK: %s has recovered
Severity: Error
Explanation: The specified fan was previously missing or had previously failed but is now ok
Recommended Action: No action is required – this message is for information only.

FAN_AIRFLOW_DIRECTION_INCORRECT: Airflow of %s is incompatible with the system airflow.
Severity: Emergency
Explanation: The specified fan's airflow is opposite to the correct system airflow.
Recommended Action: Replace the fan with a fan that has correct airflow.

FAN_AIRFLOW_DIRECTION_OK: Airflow of %s has been restored to compatible with the system airflow.
Severity: Emergency
Explanation: The specified fan's airflow was previously wrong but is now correct.
Recommended Action: No action is required – this message is for information only.

FAN_FAULT: %s logged a fan fault.
Severity: Error
Explanation: This may be caused by a defective fan or an overcurrent condition.
Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

FAN_FAULT_OK: %s has recovered from a fan fault.
Severity: Error
Explanation: The specified fan previously had an overcurrent condition but is now ok.
Recommended Action: No action is required – this message is for information only.

FAN_SPEED_FORCED: All fan speeds have been forced to %d percent because one or more of the following conditions have positive quanitites : %s.
Severity: Notice
Explanation: System and PSU fan speeds forced to a set number.
Recommended Action: No action is required – this message is for information only.

FAN_SPEED_NORMAL: All fan speeds have returned to normal operation.
Severity: Notice
Explanation: Conditions that mandate using a set speed have subsided.
Recommended Action: No action is required – this message is for information only.

FAN_SPEED_OK: The speed of %s has recovered.
Severity: Error
Explanation: The specified fan was previously too slow or too fast but is now ok.
Recommended Action: No action is required – this message is for information only.

FAN_SPEED_TOO_FAST: The speed of %s is faster than its configured value.
Severity: Warning
Explanation: This may be caused by a defective fan.
Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

FAN_SPEED_TOO_SLOW: The speed of %s is slower than its configured value.
Severity: Error
Explanation: This may be caused by a defective fan.
Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

INCOMPATIBLEFANSDETECTED: Incompatible fans have been detected. If not resolved, the system will be shut down in %d minutes.
Severity: Emergency
Explanation: All fans must be the same type (i.e. front-to-back or back-to-front) but at least one miss-matched fan has been detected. The system will be shut down if the problem is not resolved.
Recommended Action: Check that all fans are of the same type (i.e., front-to-back vs back-to-front airflow), and replace any differing fan(s) immediately.

INSUFFICIENTFANSDETECTED: Too few working fans detected. If not resolved, the %s will be shut down in %d minutes.
Severity: Emergency
Explanation: Not enough fans of the correct type are functioning and the system will be shut down if the problem is not resolved.
Recommended Action: Check that all fans are inserted and still spinning, and replace any missing or broken fans immediately.

INSUFFICIENTFANSSHUTDOWN: %s being shutdown due to insufficient or incompatible fans.
Severity: Emergency
Explanation: Too many fans have failed or are missing or incompatible fans have been detected. The system is being shut down to prevent damage.
Recommended Action: Replace all broken, missing or incompatible fans immediately

POWERSUPPLY_OVERHEAT_CRITICAL: %s temperature critical
Severity: Emergency
Explanation: The specified power supply has surpassed its critical temperature.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

POWERSUPPLY_OVERHEAT_WARNING: %s is overheating
Severity: Emergency
Explanation: The specified power supply has begun to overheat.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

POWERSUPPLY_TEMP_NORMAL: %s temperature has returned to normal
Severity: Emergency
Explanation: The specified power supply was overheating but has now returned to a normal operating temperature.
Recommended Action: No action is required – this message is for information only.

PSU_FANS_INCOMPATIBLE: 2 or more incompatible power supply fans have been detected. If not resolved, the system will be shut down in %d minutes.
Severity: Emergency
Explanation: At most one PSU fan can be incompatible, but more than one incompatible PSU fans have been detected. The system will be shut down if the problem is not resolved.
Recommended Action: Replace any incompatible PSU(s) immediately.

PSU_FANS_OK: Previously incompatible power supply fans have been restored to be compatible with the system airflow. The system will not shut down.
Severity: Emergency
Explanation: Atleast all but one PSU fans must match the system airflow, and they do now.
Recommended Action: No action is required – this message is for information only.

SUFFICIENTFANSRESTORED: Sufficient fans restored.
Severity: Emergency
Explanation: Previously missing, failed, or incompatible fans have been replaced. The system has enough fans to function properly and will not be shut down
Recommended Action: No action is required – this message is for information only.

SYSTEMOVERHEATSHUTDOWN: System temperature critical and will be shutdown %s
Severity: Emergency
Explanation: The system has surpassed its critical temperature and will be shutdown to prevent damage to the hardware.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

SYSTEMOVERHEATWARNING: The system is overheating
Severity: Emergency
Explanation: The system has begun to overheat. If the system continues to heat up, it will be shutdown
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

SYSTEMSHUTDOWNDETECTED: System was previously shutdown for environmental reasons.
Severity: Warning
Explanation: The system was previously shutdown due to insufficient fans or critical system temperature.
Recommended Action: Check the output of 'show reset cause' for more information. If the problem persists, please contact your support representative for assistance.

SYSTEMTEMPNORMAL: System temperature has returned to normal
Severity: Emergency
Explanation: The system was overheating but has now returned to a normal operating temperature.
Recommended Action: No action is required – this message is for information only.

SYSTEM_AIRFLOW_DIRECTION_ELECTED: The correct airflow for the system is %s.
Severity: Notice
Explanation: Correct system airflow either found for first time or changed.
Recommended Action: No action is required – this message is for information only.

SYSTEM_FANS_MISSING_FAILED: %d system fan(s) missing or failed.
Severity: Emergency
Explanation: The specified number of system fans are missing from the system.
Recommended Action: Insert the missing fans and replace the failed fans.

TEMPSENSORFAILED: %s failure detected
Severity: Error
Explanation: The specified temp sensor has failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSORINVALID: %s is reporting an invalid temperature
Severity: Error
Explanation: The specified temp sensor returned an invalid temperature reading. This can happen intermittently, but should not persist.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOROK: %s has recovered
Severity: Error
Explanation: The specified temp sensor had previously failed but is now ok.
Recommended Action: No action is required – this message is for information only.

TEMPSENSOR_OVERHEAT_CRITICAL: %s is reporting %sC, which is above its critical threshold of %dC
Severity: Emergency
Explanation: The specified temp sensor is reporting a temperature above its critical threshold. The system will disable the overheating component to prevent damage.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOR_OVERHEAT_WARNING: %s is reporting %sC, which is above its overheat threshold of %dC
Severity: Error
Explanation: The specified temp sensor is reporting a temperature above its overheat threshold, indicating a component is overheating.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOR_TEMP_NORMAL: %s is reporting %sC, which is within the normal range
Severity: Error
Explanation: The specified temp sensor was overheating but has now returned to a normal operating temperature.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

XCVR_OVERHEAT_CRITICAL: %s temperature critical
Severity: Emergency
Explanation: The specified transciever has surpassed its critical temperature.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

XCVR_OVERHEAT_WARNING: %s is overheating
Severity: Emergency
Explanation: The specified transciever has begun to overheat.
Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

XCVR_TEMP_NORMAL: %s temperature has returned to normal
Severity: Emergency
Explanation: The specified transciever was overheating but has now returned to a normal operating temperature.
Recommended Action: No action is required – this message is for information only.

2.16 ETH Messages

ARP_CACHE_CLEAR: ARP cache cleared by %s on %s (%s)
Severity: Notice
Explanation: ARP cache cleared by CLI command
Recommended Action: No action is required – this message is for information only.

AUTONEGUNSUPPORTED: Auto-negotiation is unsupported on interface %s, link mode (speed and duplex) will be forced to %s mode instead
Severity: Warning
Explanation: The interface is configured to auto-negotiate, but the transceiver currently inserted does not support auto-negotiation. The switch will attempt to bring up the link with a forced configuration, as indicated in the message.
Recommended Action: Configure the interface to use one of the supported link modes, or replace the transceiver with one that supports the configured link mode.

CONGESTION_DROPS: Interface %s is experiencing congestion drops, %s
Severity: Info
Explanation: The interface's frame buffer limits have been exceeded, causing packets to be dropped
Recommended Action: If the problem persists, consider redesigning your network to avoid congestion

ERRDISABLE: %s error detected on %s.
Severity: Warning
Explanation: The switch detected the reported error condition on the interface, and disabled the interface
Recommended Action: The switch detected the reported error condition (errdisable cause) on the interface. As a precautionary measure, and to avoid the error condition from affecting the switch/network, the switch disables the interface. If recovery timer has been configured for the errdisable cause, the switch will attempt to recover the interface after the recovery timeout. The interface could also be recovered by performing the shutdown command, followed by the no shutdown command in the interface configuration mode.

ETHTOOLFAIL: SIOCETHTOOL %s (%s, interface %s): %s
Severity: Error
Explanation: The Linux kernel reported an error when accessing the given interface.
Recommended Action: If the problem persists, please contact customer support.

HOST_FLAPPING: Host %s in VLAN %s is flapping between interface %s and interface %s
Severity: Warning
Explanation: The MAC address was detected on multiple ports within a short timeframe.
Recommended Action: It is recommended to check your network for loops or MAC address conflicts.

LINKMODEUNCONFIGURED: Interface %s link mode is unconfigured
Severity: Warning
Explanation: The interface's link mode has not been configured. The interface lacks a proper default configuration.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

LINKMODEUNSUPPORTED: Unsupported link mode %s for interface %s
Severity: Warning
Explanation: The currently inserted transceiver does not support the link mode (speed and/or duplex) that has been configured for the interface.
Recommended Action: Configure the interface to use one of the supported link modes, or replace the transceiver with one that supports the configured link mode.

MACADDRBANKFULL: Unable to program %s host table entry for MAC address %s in VLAN %d due to hardware resource exhaustion
Severity: Warning
Explanation: The specified MAC address could not be programmed into the switching ASIC due to hash collisions in a bucket. Packets destined to the address will be flooded.
Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. Please contact your technical support representative if you need additional assistance.

MAC_ADDR_TABLE_CLEAR: Clear MAC address table on %s, %s by %s on %s (%s)
Severity: Notice
Explanation: MAC address table was cleared by CLI command
Recommended Action: No action is required – this message is for information only.

MAINTENANCE_DOWN: Interface %s has been shutdown for maintenance.
Severity: Info
Explanation: This interface has been shutdown for maintenance.
Recommended Action: No action is required – this message is for information only.

POLLLINKSTATUSFAIL: Failed to poll link status on interface %s (%s)
Severity: Warning
Explanation: An attempt to poll the interface's status failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

REMOTEMACADDRBANKFULL: Unable to program %s remote host table entry for MAC address %s in VLAN %d due to hardware TCAM resource exhaustion
Severity: Warning
Explanation: The specified MAC address could not be programmed into the switching ASIC due to hardware TCAM resource exhaustion. Packets destined to the address will be flooded.
Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. Please contact your technical support representative if you need additional assistance.

REMOTEMACADDRBSTFULL: Unable to program %s remote host table entry for MAC address %s in VLAN %d due to FFU-BST hardware resource exhaustion
Severity: Warning
Explanation: The specified MAC address could not be programmed into the switching ASIC due to FFU BST hardware resource exhaustion. Packets destined to the address will be flooded.
Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. Please contact your technical support representative if you need additional assistance.

SETADDRFAIL: Failed to set the MAC address of interface %s to %s
Severity: Warning
Explanation: An attempt to set the MAC address of the interface failed for an unknown reason.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETDISFAIL: Failed to disable interface %s
Severity: Warning
Explanation: An attempt to disable the interface failed for an unknown reason.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETENFAIL: Failed to enable interface %s
Severity: Warning
Explanation: An attempt to enable the interface failed for an unknown reason.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETLINKMODEFAIL: Failed to set speed/duplex on interface %s to %s/%s (%s)
Severity: Warning
Explanation: An attempt to set the interface's speed/duplex mode failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETMTUFAIL: Failed to set interface %s mtu
Severity: Warning
Explanation: An attempt to set the interface mtu failed for an unknown reason.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETPAUSEPARAMFAIL: Failed to set pause parameters on interface %s (%s)
Severity: Warning
Explanation: An attempt to set the interface's pause parameters failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STORMCONTROL_DISCARDS: Storm Control discarded packets on Interface %s: Broadcast %L, Multicast %L, All %L
Severity: Info
Explanation: The interface's traffic is exceeding the configured storm-control threshold causing packets to be discarded
Recommended Action: No action is required – this message is for information only.

UNKNOWN_MULTICAST_FORWARDING_DISABLED: Multicast sent to a group with no local members will be discarded in VLAN %d: %s.
Severity: Warning
Explanation: Multicast packets for groups that have not been learned by IGMP Snooping nor programmed via the CLI or Pim will be discarded in this VLAN because hardware resources are full
Recommended Action: Use fewer VLANs with unknown multicast traffic.

UNKNOWN_MULTICAST_FORWARDING_RESUMED: Multicast sent to a group with no local members will be flooded normally in VLAN %d
Severity: Warning
Explanation: Multicast packets for groups that have not been learned by IGMP Snooping nor programmed via the CLI or Pim, will be flooded normally to the entire VLAN or router interfaces as expected.
Recommended Action: No action is required – this message is for information only.

VLAN_ENCAP_TABLE_FULL: Unable to encapsulate %s packets on interface %s with VLAN %d due to hardware resource exhaustion
Severity: Warning
Explanation: The encapsulation could not be programmed due to insufficient hardware resources. Packets on the specified interface will no longer be encapsulated.
Recommended Action: To solve this issue, please reduce the number of vlan mappings that are currently configured and try again.

VLAN_FLOODSET_FORWARDING_DISABLED: Traffic sent to the vlan floodset in vlan %d will be discarded%s.
Severity: Error
Explanation: Broadcast and unknown DA traffic sent to the vlan floodset will be discarded in this VLAN. The vlan floodset could not be programmed because hardware resources are full.
Recommended Action: Remove multicast groups or vlans in order to reduce hardware usage. When hardware resources are freed, the vlan floodset will automatically be programmed

VLAN_FLOODSET_FORWARDING_RESUMED: Traffic sent to the vlan floodset will be forwarded normally in vlan %d
Severity: Error
Explanation: Broadcast and unknown DA traffic sent to the vlan floodset will be forwarded normally in this VLAN.
Recommended Action: No action is required – this message is for information only.

VLAN_MAPPING_TABLE_FULL: Unable to map VLAN %d to %d for interface %s on %s due to hardware resource exhaustion
Severity: Warning
Explanation: The specified VLAN mapping could not be programmed due to insufficient hardware resources. Packets on the original VLAN will no longer be mapped.
Recommended Action: To solve this issue, please reduce the number of vlan mappings that are currently configured and try again.

VNIVLANMAPFULL: Unable to program VLAN %d to VNI %d mapping due to hardware resource exhaustion.
Severity: Warning
Explanation: The specified mapping could not be programmed into the switching ASIC. Remote VXLAN packets destined for the specified VNI from the specified VLAN will not be forwarded.
Recommended Action: Reduce the number of such mappings that need to be programmed into the switching ASIC. Please contact your technical support representative if you need additional assistance.

2.17 EVENTMON Messages

DB_WRITE_FAILED: A sqlite %s exception occurred when writing to the EventMon database
Severity: Error
Explanation: An error occurred when trying to write to EventMon Database
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.18 EXTENSION Messages

INSTALLED: Extension %s has been installed.
Severity: Info
Explanation: The extension has been installed.
Recommended Action: No action is required – this message is for information only.

INSTALLING: Installing extension %s, version %s, SHA-1 %s
Severity: Info
Explanation: EOS has started to install the extension.
Recommended Action: No action is required – this message is for information only.

INSTALL_ERROR: Extension %s failed to install: %s
Severity: Error
Explanation: The extension failed to install. The log message may contain a reason why installation failed, such as a missing dependency.
Recommended Action: Determine why the extension failed to install. If a dependency is missing, install it. If you are unsure how to proceed, contact the developer of the extension or your support representative.

UNINSTALLED: Extension %s has been uninstalled.
Severity: Info
Explanation: The extension has been uninstalled.
Recommended Action: No action is required – this message is for information only.

UNINSTALLING: Uninstalling extension %s
Severity: Info
Explanation: EOS has started to uninstall the extension.
Recommended Action: No action is required – this message is for information only.

UNINSTALL_ERROR: Extension %s failed to uninstall: %s
Severity: Error
Explanation: The extension failed to uninstall. The message may contain a reason why uninstallation failed, such as a dependency from another installed extension.
Recommended Action: Determine why the extension failed to uninstall. Some extensions may not support uninstall, requiring a reboot of the switch to remove the extension. If you are unsure how to proceed, contact the developer of the extension or your support representative.

2.19 FHRP Messages

ADDR_ERROR: Failed to %s a virtual address %s %s the kernel local routing table
Severity: Error
Explanation: VARP/VRRP virtual address was not added/removed from the kernel local routing table
Recommended Action: Check the configuration and ensure that VARP/VRRP addresses are unique and do not conflict with interface addresses. Also check that no manual entries were added to the linux local routing table.

ARPTABLES_ERROR: Failed to %s an arptables rule for virtual IP %s on interface %s.
Severity: Warning
Explanation: The arptables rule for a VARP virtual IP address was not added/removed, potentially leading to incorrect source IPs and source mac addresses inside the arp header in arp requests for ip addresses inside a virtual IP address subnet.
Recommended Action: Delete and reconfigure the virtual IP addresses for which arptables rules failed to be added/removed.

ARPTABLES_FLUSH_ERROR: Failed to flush arptables for network namespace %s.
Severity: Warning
Explanation: The arptables were not flushed properly when restarting Acl. Arp requests sent from the router may use incorrect source IP and mac address when arping for ip addresses inside a VARP ip address subnet.
Recommended Action: No action is required – this message is for information only.

IPTABLES_ERROR: Failed to %s an iptables rule for virtual IP %s on interface %s.
Severity: Warning
Explanation: The iptables rule for a VARP/VRRP virtual IP address was not added/removed, potentially leading to problems accessing the router via the virtual IP.
Recommended Action: Try changing the accept mode for FHRP and then changing it back.

IPTABLES_FLUSH_ERROR: Failed to flush iptables for network namespace %s.
Severity: Warning
Explanation: The iptables were not flushed properly when restarting Acl. There may be problems accessing the router.
Recommended Action: No action is required – this message is for information only.

2.20 FLOW Messages

TCAM_ERROR: Unable to add TCAM entry for OpenFlow/DirectFlow flow %s, error %s
Severity: Error
Explanation: The specified flow has not been created in hardware since TCAM entry could not be added
Recommended Action: If the error is because there is no space left in TCAM, remove some flows and retry adding this flow

2.21 FOCALPOINTV2 Messages

ACL_COUNTER_A: Hardware resources to enable counting is available.
Severity: Info
Explanation: Reapply to enable counting.
Recommended Action: No action is required – this message is for information only.

ACL_COUNTER_FULL: Hardware resources full.
Severity: Info
Explanation: Counting will be disabled for some rules Acl¡%s¿.
Recommended Action: No action is required – this message is for information only.

ACL_COUNTER_NA: Hardware resources to enable counting is not available.
Severity: Info
Explanation: Counting Disabled for Acl¡%s¿
Recommended Action: No action is required – this message is for information only.

ACL_DI_NON_ZERO_INDEX_MATCH_IGNORED: %s match in ACL¡%s¿ is supported only when 'deep-inspection payload l%d skip' value is 0.
Severity: Info
Explanation: Rules in ACLs having deep-inspection aliases match will be applied without the aliases match condition.
Recommended Action: No action is required – this message is for information only.

ACL_DI_NO_TAPAGG_MATCH_IGNORED: %s match in ACL¡%s¿ is supported only in TapAgg mode.
Severity: Info
Explanation: Rules in ACLs having deep-inspection match will be applied without the deep-inspection match condition.
Recommended Action: No action is required – this message is for information only.

ACL_INNER_VLAN_MATCH_IGNORED: Inner vlan match in ACL¡%s¿ are supported only in TapAgg mode.
Severity: Info
Explanation: Rules in ACLs having inner vlan match will be applied without inner vlan match condition.
Recommended Action: No action is required – this message is for information only.

ACL_MAPPER_CONFIG_CHANGE: Change in ACL configuration in source port mapper requires a restart of the FocalPointV2 agent.
Severity: Info
Explanation: ACLs in FFU will be re-initialized at bootup with new mapper configuration
Recommended Action: No action is required – this message is for information only.

ACL_PERMIT_LOGGING_DISABLED: ACL logging can't be enabled for permit rules in %s due to hardware resource limitations.
Severity: Error
Explanation: Release a mirror session and reapply your ACLs to enable permit logging.
Recommended Action: No action is required – this message is for information only.

AGILEPORT_MODE_CHANGE: Change in agile port mode requires a restart of the FocalPointV2 agent.
Severity: Info
Explanation: An agile port mode change occurs the first time an agile port is configured for 40G and when the last agile port configured for 40G is configured for 10G.
Recommended Action: No action is required – this message is for information only.

DMA_ERROR: %s Packet DMA Error occurred in FocalPoint chip %s
Severity: Error
Explanation: A fatal Error affecting cpu packet DMA occurred in a FocalPoint switching ASIC. FocalPoint agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

EACL_VLAN_INNER_VLAN_MATCH_IGNORED: Vlan/inner vlan match in Egress ACL¡%s¿ are supported only in TapAgg mode.
Severity: Info
Explanation: Rules in Egress ACLs having vlan/inner vlan match will be applied without vlan/inner vlan match condition.
Recommended Action: No action is required – this message is for information only.

FFU_BST_CONFIG_CHANGE: Change in allowed FFU BST features configuration requires a restart of the FocalPointV2 agent.
Severity: Info
Explanation: FFU BST will be re-initialized at bootup with new configuration
Recommended Action: No action is required – this message is for information only.

LOADBALANCE_HASH_PROFILE_SM_FULL: The Hash Profile %s is not programmed in the hardware.
Severity: Info
Explanation: Hash Profiles Limit has been hit.
Recommended Action: No action is required – this message is for information only.

LOADBALANCE_PAYLOAD_FIELD_IGNORED: Load-balancing on %s field is supported only in tap aggregation mode.
Severity: Info
Explanation: Custom fields will not be included in the load-balance hash calculation for this profile in non-tapagg mode.
Recommended Action: No action is required – this message is for information only.

MLAG_MIRROR_HW_RESOURCE_FULL: Mirroring hardware resources are insufficient to enable MLAG. Mlag will be made inactive until the mirroring resources are available.
Severity: Error
Explanation: The switch is unable to program mirroring session for logging certain packets traversing the peerlink to the CPU.
Recommended Action: To solve this issue, remove a mirroring session or unconfigure a feature that is using a mirror session.

MLAG_MIRROR_HW_RESOURCE_NORMAL: Mirroring hardware resouces are now available to enable MLAG. Attempting to make mlag active.
Severity: Error
Explanation: Everything else being normal, MLAG should be active shortly.
Recommended Action: No action is required – this message is for information only.

MROUTE_COUNTER_HW_FULL: Policer hardware resources are insufficient to program the mroute counter
Severity: Error
Explanation: The switch is unable to program the mroute counter due to insufficient policer hardware resources. The mroute counter feature is either not able to reserve a new policer bank or has already used up the policer bank(s) it has reserved
Recommended Action: To solve this issue, try to free up a policer bank used by some other feature

MROUTE_COUNTER_HW_NORMAL: All mroute counters are programmed in hardware
Severity: Error
Explanation: The switch was able to program all mroute counters in the hardware.
Recommended Action: No action is required – this message is for information only.

MROUTE_INTERNAL_ERROR: Internal multicast routing error %d (%s) %s. %d multicast groups currently in use
Severity: Error
Explanation: An internal error has happened during an operation in the multicast routing table. The internal state of the multicast table might be inconsistent.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MTUINDEXRESTORED: Restored hardware resources for programming MTU on vlan %d
Severity: Warning
Explanation: The vlan MTU value has been restored to its configured MTU value
Recommended Action: No action is required – this message is for information only.

NOMTUINDEX: Insufficient hardware resources for programming MTU on vlan %d
Severity: Warning
Explanation: Insufficient hardware resources to program more than 16 distinct MTU values. The vlan interface will revert back to a default MTU value of 1500
Recommended Action: No action is required – this message is for information only.

NO_MORE_SPANNING_TREES: Hardware resources are insufficient to create the number of requested spanning trees
Severity: Error
Explanation: The switch is unable to create the number of requested spanning trees due to insufficient hardware resources. When the switch is unable to create enough spanning trees, some VLANs may share a default spanning tree instead.
Recommended Action: To solve this issue, reconfigure the network to reduce the number of spanning trees required.

NO_STATIC_NAT_POLICERS: Hardware resources to enable counting is not available.
Severity: Info
Explanation: Counting disabled for some Static NAT connections.
Recommended Action: No action is required – this message is for information only.

PCIE_ERROR: PCIE Error occurred in FocalPoint chip %s
Severity: Error
Explanation: FocalPoint agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

POLICER_BANK_FULL: Hardware resources are insufficient to program all NAT rules
Severity: Error
Explanation: The switch is unable to program all NAT rules due to insufficient hardware policer banks.
Recommended Action: To solve this issue, remove features that are using policer banks from the configuration.

POLICER_BANK_NORMAL: All new dynamic NAT connections will be programmed in hardware
Severity: Error
Explanation: The switch will program all new dynamic NAT connections in the hardware, all existing connections will continue to be translated in software.
Recommended Action: No action is required – this message is for information only.

POLICER_PARAMETERS_INCONSISTENT: The burst capacity configured in %s for service-policy %s is not sufficient for the hardware to achieve the programmed CIR.
Severity: Info
Explanation: Operational CIR might be less than CIR configured.
Recommended Action: No action is required – this message is for information only.

2.22 FRU Messages

CARD_FAILURE: Hardware failure when reading the card in slot %s
Severity: Error
Explanation: A fatal error occurred when attempting to access a card.
Recommended Action: This is a software or hardware problem. It may be necessary to upgrade software or replace the card.

CARD_INSERTED: Card %s has been inserted. model: %s rev: %s serial number: %s
Severity: Info
Explanation: Card insertion detected
Recommended Action: No action is required – this message is for information only.

CARD_INTERFACE_CONFIG_REMOVED: Interface configuration on %s removed due to incompatible card model for configuration. current model: %s previous model: %s
Severity: Info
Explanation: Card interface configuration removed
Recommended Action: No action is required – this message is for information only.

CARD_REMOVED: Card %s has been removed. model: %s rev: %s serial number: %s
Severity: Info
Explanation: Card removal detected
Recommended Action: No action is required – this message is for information only.

CARD_SUBOPTIMAL_COOLING: Card %s is located in a suboptimal slot for chassis cooling. It is optimized for slots %s
Severity: Error
Explanation: The inserted card is located in a suboptimal slot for chassis cooling.
Recommended Action: Verify that the card is inserted into an optimal slot for chassis cooling. Please contact support for information on optimal card configurations.

CARD_UNSUPPORTED: Card in slot %s is unsupported (code %d)
Severity: Error
Explanation: The inserted card is not supported by the running software.The card is not brought online.
Recommended Action: Install software that supports the card.

CHASSIS_FAILURE: Hardware failure when accessing the chassis
Severity: Emergency
Explanation: A fatal error occured when attempting to access the chassis.
Recommended Action: Upgrade software or contact support. System functionality may be severely limited

CHASSIS_UNSUPPORTED: Chassis is unsupported
Severity: Emergency
Explanation: The chassis is not supported by the running software.System functionality may be severely limited.
Recommended Action: Install software that supports the chassis.

DEVICE_DRIVER: Fatal software failure for the device in slot %s
Severity: Error
Explanation: A fatal error occurred when attempting to instantiate management software for the device.
Recommended Action: Upgrade software to the current release. Contact support if the problem persists following an upgrade.

DEVICE_INSERTED: Device in slot %s has been inserted
Severity: Info
Explanation: Device insertion detected
Recommended Action: No action is required – this message is for information only.

DEVICE_REMOVED: Device in slot %s has been removed
Severity: Info
Explanation: Device removal detected
Recommended Action: No action is required – this message is for information only.

DEVICE_UNSUPPORTED: Device in slot %s is not supported
Severity: Error
Explanation: The device inserted in the above slot is unknown and not supported by the software
Recommended Action: Replace the device with a one supported by the version of your software.

FAN_INSERTED: %s has been inserted. model: %s serial number: %s
Severity: Info
Explanation: The specified fan has been inserted.
Recommended Action: No action is required – this message is for information only.

FAN_REMOVED: %s has been removed. model: %s serial number: %s
Severity: Info
Explanation: The specified fan has been removed or is not properly seated.
Recommended Action: Reinsert the fan, or check that the fan is properly inserted.

FAN_UNSUPPORTED: %s is unsupported
Severity: Error
Explanation: The specified is not supported by the running software.
Recommended Action: Check that the version of software you are running supports the specified fan type. Upgrade software or replace the fan.

NOLBTDUMP: Unable to determine Aboot firmware version (%s)
Severity: Error
Explanation: nvramtool/lbtdump command failed
Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_DRIVER: Fatal software failure for the power supply in slot %s
Severity: Error
Explanation: A fatal error occurred when attempting to instantiate management software for the power supply.
Recommended Action: Upgrade software to the current release. Contact support if the problem persists following an upgrade.

POWERSUPPLY_FAILURE: Power Supply in slot %d failed
Severity: Error
Explanation: The power supply inserted in the above slot could not be identified due to hardware errors
Recommended Action: Check that the power supply is properly inserted. It may be necessary to replace the power supply.

POWERSUPPLY_INSERTED: Power Supply in slot %d has been inserted
Severity: Info
Explanation: Power supply insertion detected
Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_REMOVED: Power Supply in slot %d has been removed
Severity: Info
Explanation: Power supply removal detected
Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_UNSUPPORTED: Power Supply in slot %d is not supported
Severity: Error
Explanation: The power supply inserted in the above slot is unknown and not supported by the software
Recommended Action: Replace the power supply with a power supply supported by the version of your software.

SEEPROM_CORRUPTED: A corrupted Seeprom was detected on device %s. Repair was %s.
Severity: Error
Explanation: Seeproms can very rarely be corrupted. Redundant state covers this issue and often allows for full reparation. No action needs to be taken.
Recommended Action: Seeproms contain configurative informatin for the system hardware. While a corruption is rare redundant state is provided against this occasion with repair logic built into the system.

SSD_DETECTION_ERROR: Failed to detect SSD on bootup. Error msg: %s
Severity: Error
Explanation: Failed to detect SSD during system bootup. This can happen if the device is not recognized by the driver or if the system encountered an error when booting up.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SSD_PARTITION_NOT_MOUNTED: SSD partition %s not mounted as /mnt/drive
Severity: Error
Explanation: The specified SSD partition is not currently mounted as /mnt/drive. This can happen if the partition is not properly formatted or if the SSD device was not detected by the driver.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SSD_UNEXPECTED_PARTITION_MOUNTED: Unexpected partition %s mounted as /mnt/drive. Expected SSD partition %s to be mounted as /mnt/drive instead.
Severity: Error
Explanation: Expected the specified SSD partition to be mounted as /mnt/drive. But a different partition got mounted as /mnt/drive. This is unexpected.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SSD_WRITECACHE_DISABLE_FAILED: Failed to disable write cache for SSD drive %s.
Severity: Error
Explanation: Failed to disable write cache on SSD drive.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_DEPRECATED: This system is not supported. The last supported EOS version for this system is (%s)
Severity: Emergency
Explanation: The current hardware has been deprecated and is not supported by the running software. System functionality is severely limited.
Recommended Action: Install older software and reboot

SYSTEM_DRIVER: Fatal software failure for this system
Severity: Emergency
Explanation: A fatal error occurred when attempting to instantiate management software for the system.
Recommended Action: This is probably a problem with the installed software. It may be necessary to upgrade software.

SYSTEM_FAILURE: Failed to read hardware description of this system (code %d)
Severity: Emergency
Explanation: A fatal error occurred when attempting to read the factory-programmed hardware description of this system. This may be a hardware or software failure. System functionality may be severely limited.
Recommended Action: Install new software and restart the Fru Agent, or replace the hardware.

SYSTEM_UNSUPPORTED: Fru management software is not installed for this system (code %d)
Severity: Emergency
Explanation: The current hardware is not supported by the running Fru Agent software. System functionality is severely limited.
Recommended Action: Install new software and restart the Fru Agent

TRANSCEIVER_INSERTED: A transceiver for interface %s has been inserted. manufacturer: %s model: %s part number %s rev %s serial number %s
Severity: Info
Explanation: Transceiver insertion detected
Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_REMOVED: The transceiver for interface %s has been removed
Severity: Info
Explanation: Transceiver removal detected
Recommended Action: No action is required – this message is for information only.

2.23 FWK Messages

ELB_MEMORYLIMITEXCEEDED: AttrLog buffer memory limit exceeded. (%s)(%s)
Severity: Error
Explanation: A runtime subsystem memory limit was reached.
Recommended Action: Please contact technical support.

FAILED_TO_INSTANTIATE: Unable to instantiate entity %s requested by peer %s at %s
Severity: Warning
Explanation: The runtime subsystem was unable to instantiate an entity requested by a peer process. It is possible that incompatible library versions are in use.
Recommended Action: This is likely a serious error. Please contact technical support.

INSTANTIATE_READONLY: Instantiation of %s requested by read-only peer %s at %s
Severity: Warning
Explanation: The runtime subsystem refused to instantiate an entity requested by a peer process that mounted the parent read-only.
Recommended Action: Please contact technical support.

MOUNT_CLOSED_EXIT: Process exiting.
Severity: Error
Explanation: A runtime subsystem lost contact with a peer process.
Recommended Action: Please contact technical support.

MOUNT_PEER_CLOSED: Peer closed socket connection. (%s)(%s)
Severity: Error
Explanation: A runtime subsystem lost contact with a peer process.
Recommended Action: Please contact technical support.

SOCKET_CLOSE_LOCAL: Closing connection to %s at %s (%s)
Severity: Error
Explanation: A runtime subsystem lost contact with a peer process.
Recommended Action: Please contact technical support.

SOCKET_CLOSE_REMOTE: Connection to %s at %s closed by peer (%s)
Severity: Error
Explanation: A runtime subsystem lost contact with a peer process.
Recommended Action: Please contact technical support.

2.24 GMP Messages

IGMP_QUERY_VERSION_CONFIGURED_DISCREPANCY: IGMP version %d query heard on vlan %d by a querier configured to version %d.
Severity: Warning
Explanation: The switch detected an IGMP query message of a different version than the version that is currently configured.
Recommended Action: Configure all queriers on the network to use the same querier version

2.25 HARDWARE Messages

AHWAHNEE_PICASSO_INIT_FAILED: Ahwahnee picasso init failed
Severity: Warning
Explanation: Setting up of picasso pcie BAR on ahwahnee supe has failed
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

ALTA_POWER_RAILS_ADJFAILED: Failed to perform FM6000 power rail adjustment
Severity: Warning
Explanation: The system could not perform an adjustment of FM6000 power rails.
Recommended Action: Rebooting the system may solve the problem. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

ALTA_POWER_RAILS_ADJUSTED: Successfully adjusted FM6000 power rails.
Severity: Info
Explanation: Voltage on FM6000 power rails was adjusted to its optimal value.
Recommended Action: No action is required – this message is for information only.

CARD_BAD_INPUT_VOLTAGE: %s supply voltage is incorrect (voltage is %s)
Severity: Error
Explanation: Software detected that the card has a power supply problem
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_EJECTOR_CLOSED: Card %s's ejector handle is now closed
Severity: Warning
Explanation: An ejector handle is closed on a fabric card. The ejector handle is used to detect card removal and remove the fabric card from the system without dropping packets. If the ejector handle is not properly closed, software will be unable to detect that a card is about to be removed and will be unable to perform a graceful shutdown.
Recommended Action: No action is required – this message is for information only.

CARD_EJECTOR_OPEN_AFTER_INSERTION: %s's ejector handle was open after insertion. This will prevent a clean shutdown of the card if it is removed, and packets may be dropped.
Severity: Warning
Explanation: An open fabric card ejector handle was detected. The ejector handle is used to detect card removal and remove the fabric card from the system without dropping packets. If the ejector handle is not properly closed, software will be unable to detect that a card is about to be removed and will be unable to perform a graceful shutdown.
Recommended Action: Make sure the ejector handle is properly closed.

CARD_EJECTOR_OPEN_SHUTDOWN: Card %s's ejector handle is now open and the card is being shut down.
Severity: Warning
Explanation: An ejector handle on a fabric card is open. The card will be shut down to prevent packet loss upon fabric card removal.
Recommended Action: No action is required – this message is for information only.

CARD_FAIL_TO_POWER_ON: Card %s failed to power on in state %s, will retry in %d minutes. model: %s rev: %s serial number: %s
Severity: Error
Explanation: Software detected a problem while attempting to power on a card
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_LOST_COMMUNICATION: Communication with %s has been lost. PCIE_FATAL_ERROR signal is asserted. model: %s rev: %s serial number: %s
Severity: Error
Explanation: Software detected a problem communicating to a PCIe switch in the system
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_LOST_POWER: %s unexpectedly lost power. POWER_GOOD signal deasserted. model: %s rev: %s serial number: %s
Severity: Error
Explanation: Software detected a problem with power on a card in the system
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_POWERED_OFF: Card %s has been powered off. model: %s rev: %s serial number: %s
Severity: Info
Explanation: Software has powered down the card
Recommended Action: No action is required – this message is for information only.

CARD_POWERED_ON: Card %s has been powered on. model: %s rev: %s serial number: %s
Severity: Info
Explanation: Software has powered up the card
Recommended Action: No action is required – this message is for information only.

CARD_POWER_CYCLE: Card %s was power cycled due to %s
Severity: Error
Explanation: A card power cycle is used to attempt recovery of an error.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_RESET: Card %s in state %s was reset due to multiple failed power on attempts.
Severity: Error
Explanation: A card was reset in an attempt to recover from an error. It may appear that the card was removed from the system momentarily.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_TEMP_ALERT_ERROR: Temp Alert has been asserted on %s
Severity: Error
Explanation: Software detected a problem with temperature on a card in the system
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CHIP_BAD_VERSION: Cannot access %s (%s). Unexpected version: %d
Severity: Error
Explanation: The version of this chip is not what was expected. This probably means the read of the version register failed, and we cannot access the chip's registers.
Recommended Action: Remove and insert the card

CHL822X_UPGRADED: Successfully upgraded Chl822X device to version %d
Severity: Info
Explanation: Device was successfully upgraded.
Recommended Action: No action is required – this message is for information only.

CHL822X_UPGRADEFAILED: Failed to perform an upgrade of the Chl822X device
Severity: Emergency
Explanation: The system could not perform an upgrade of a Chl822X device. This may be due to a hardware or software failure.
Recommended Action: Rebooting the system may solve the problem. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DISRUPTIVE_RESTART: Non-disruptive restart of %s forwarding agent failed. All hardware entries in %s table will be deleted and re-programmed in the hardware.
Severity: Error
Explanation: Forwarding agent could not recover its hardware state during restart. This could result in hardware state being deleted and re-programmed in the hardware. This can result in traffic disruption.
Recommended Action: No action is required – this message is for information only.

ERROR_DETECTED: Software has detected %s '%s'.
Severity: Error
Explanation: Software has detected a problem.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXCESSIVE_MULTIPLE_BIT_ERRORS: Excessive multibit memory errors detected in chip: %s.
Severity: Error
Explanation: An excessive number of multibit memory errors detected in a switchingASIC. Please contact support.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FANCONTROLLER_COMMUNICATION_ERROR: Communication error with the fan controller %s.
Severity: Error
Explanation: An error occurred while giving commands over SMBus to a fan controller.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FANSMBUSFAILURE: Error detected in the System Management Bus connection to fan slot %s
Severity: Error
Explanation: Software detected an error in the System Management Bus connection to the given fan. Fan detection has been disabled for this slot.
Recommended Action: Try replacing the affected fan again. If the problem persists, please contact your support representative for assistance.

FPGA_ERROR: Hardware error occurred on a FPGA on the card %s. Reason: %s. Power cycle the card at your earliest convenience to clear the error.
Severity: Error
Explanation: Software detected a hardware error on the named card FPGA
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_ERROR_DEBUG: Software has read debugging information for the hardware error on FPGA %s on card %s. Partition: %s, frame address: %s, word address: %s, bit address: %s, FRAME_CRC_STAT0: %s, FRAME_CRC_STAT1: %s
Severity: Info
Explanation: Software has read debugging information for the hardware FPGA error
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_PROGRAMMER_ERROR: Fpga programming failed for fpga %s
Severity: Error
Explanation: Software detected a problem while configuring the given fpga.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_STATIC_UPGRADED: Successfully upgraded %s system fpga.
Severity: Info
Explanation: The above fpga was successfully upgraded.
Recommended Action: No action is required – this message is for information only.

FPGA_STATIC_UPGRADEFAILED: Failed to perform an upgrade of the %s system fpga.
Severity: Emergency
Explanation: The system could not perform an upgrade of an fpga. This may be due to a hardware or software failure. System functionality will be severely limited.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_STATIC_UPGRADING: The upgrade of the %s system fpga has begun.
Severity: Info
Explanation: The above fpga is currently upgrading
Recommended Action: No action is required – this message is for information only.

FPGA_UNPROGRAMMED: The FPGA %s is unprogrammed.
Severity: Emergency
Explanation: The given FPGA is unprogrammed and cannot be accessed, possibly due to an interrupted or failed attempt at upgrading the FPGA. Manual intervention may be able to fix the problem. System functionality will be severely limited until then.
Recommended Action: Please see Knowledge Base article #NN for instructions on how to manually program the FPGA.

FPGA_UNRECOGNIZED: The %s FPGA image installed is not recognized by EOS
Severity: Error
Explanation: Fpgas provide logic and hardware level performance to many Arista switches. The above chip is not currently recognized by the EOS operating system. If the above chip is a Stratix V with customer specific functionality of the 7124FX family, please contact your internal FPGA team. Otherwise, contact Arista customer support.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_UPGRADED: Successfully upgraded the FPGA %s to version %d.%d
Severity: Info
Explanation: The above FPGA was successfully upgraded.
Recommended Action: No action is required – this message is for information only.

FPGA_UPGRADEFAILED: Failed to perform an upgrade of the FPGA %s from version %d.%d to version %d.%d
Severity: Emergency
Explanation: The system could not perform an upgrade of an FPGA. This may be due to a hardware or software failure. System functionality will be severely limited.
Recommended Action: Downgrading back to an earlier version of EOS may restore system functionality. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_UPGRADEINTERRUPTED: A previous attempt to upgrade the FPGA %s was interrupted.
Severity: Info
Explanation: The system detected that a previous attempt to upgrade the given FPGA was interrupted before the upgrade completed. This could be because the switch lost power while upgrading the FPGA.
Recommended Action: No action is required – this message is for information only.

FPGA_UPGRADEMISSINGREVISION: A previous attempt to upgrade the FPGA %s could not proceed because the system was given a missing or corrupt FPGA image file: %s
Severity: Error
Explanation: The system detected that the FPGA image file supplied to it was either missing or corrupt. Hence it could not read the revision number for the supplied image.
Recommended Action: Please ensure that a valid image file is supplied for the upgrade.

FPGA_VALID: The %s FPGA is currently being read by EOS
Severity: Notice
Explanation: Fpgas provide logic to and hardware level performance to many Arista switches. The above chip has been programmed successfully and is recognized by the EOS operating system
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_CORRECTED: Parity error repaired by ECC logic in FocalPoint chip %s (%s) (count: %d)
Severity: Info
Explanation: A parity error occured in one of the SRAM areas in a FocalPoint switching ASIC. The affected entry was repaired by ECC logic in the SRAM. Traffic forwarding will not be affected by this error.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_FATAL: Fatal parity error occured in FocalPoint chip %s (%s)
Severity: Warning
Explanation: A fatal parity error occurred in a FocalPoint switching ASIC. The FocalPointV2 agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_REPAIRED: Parity error detected and repaired in FocalPoint chip %s (%s) (count: %d)
Severity: Info
Explanation: A parity error occurred in one of the tables in a FocalPoint switching ASIC. The affected entry was repaired by rewriting it from the software cache. Traffic forwarding may have been adversely affected for a few milliseconds.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_STATS_UNCORRECTABLE: Uncorrectable parity error occurred in the statistics in FocalPoint chip %s (%s)
Severity: Warning
Explanation: An uncorrectable but non-fatal parity error occurred in a FocalPoint switching ASIC. Traffic forwarding will not be affected by this error. Some statistics are no longer accurate. To recover from this error, restart the FocalPointV2 agent in a maintenance window.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_TRANSIENT: Transient parity error occured in FocalPoint chip %s (%s) (count: %d)
Severity: Info
Explanation: A parity error occurred while forwarding a frame in a FocalPoint switching ASIC. The frame will have been dropped (or transmitted cut-through with a forced bad CRC), but the error will have no further effect.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_WRITEBACK_END: Finish software correction of ECC protected memory in FocalPoint chip %s (SRAM: %d).
Severity: Info
Explanation: A parity error occurred in one of the SRAM areas in a FocalPoint switching ASIC. The affected entry is repaired on reads by ECC logic in the SRAM. To correct the hardware, a write to the affected entry is necessary. Finishing this write. Traffic forwarding will not be affected by this.
Recommended Action: No action is required – this message is for information only.

FPV2_PERR_WRITEBACK_START: Start software correction of ECC protected memory in FocalPoint chip %s (SRAM: %d).
Severity: Info
Explanation: A parity error occurred in one of the SRAM areas in a FocalPoint switching ASIC. The affected entry is repaired on reads by ECC logic in the SRAM. To correct the hardware, a write to the affected entry is necessary. Beginning this write. Traffic forwarding will not be affected by this.
Recommended Action: No action is required – this message is for information only.

FP_PERR_CUMULATIVE: Cumulative parity error occured in FocalPoint chip %s (%s) (count: %d)
Severity: Warning
Explanation: A parity error occurred in an SRAM in a FocalPoint switching ASIC. The affected segment (512 bytes) of packet memory has been disabled.
Recommended Action: No immediate action is required. Reboot the switch during the next scheduled maintenance window to recover the lost memory.

FP_PERR_FATAL: Fatal parity error occured in FocalPoint chip %s (%s)
Severity: Warning
Explanation: A fatal parity error occurred in a FocalPoint switching ASIC. The FocalPoint agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

FP_PERR_REPAIRED: Parity error detected and repaired in FocalPoint chip %s (%s) (count: %d)
Severity: Info
Explanation: A parity error occurred in one of the tables in a FocalPoint switching ASIC. The affected entry was repaired by rewriting it from the software cache. Traffic forwarding may have been adversely affected for a few milliseconds.
Recommended Action: No action is required – this message is for information only.

FP_PERR_TRANSIENT: Transient parity error occured in FocalPoint chip %s (%s) (count: %d)
Severity: Info
Explanation: A parity error occurred while forwarding a frame in a FocalPoint switching ASIC. The frame will have been dropped (or transmitted cut-through with a forced bad CRC), but the error will have no further effect.
Recommended Action: No action is required – this message is for information only.

FW_LOAD_FAILED: Failed to load firmware: %s
Severity: Emergency
Explanation: An error occurred while attempting to load firmware into the specified device(s). The device(s) are non-operational until this problem is fixed.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FW_LOAD_SLOW: Programming firmware is unexpectedly slow: %s
Severity: Info
Explanation: Firmware was loaded into the specified device successfully, but the process took longer than expected. The device(s) is operating normally.
Recommended Action: No action is required – this message is for information only.

FW_UPDATE_DONE: Finished updating firmware: %s
Severity: Info
Explanation: The firmware for the specified devices has been successfully updated.
Recommended Action: No action is required – this message is for information only.

FW_UPDATE_START: Updating firmware: %s
Severity: Info
Explanation: The firmware for the specified devices is being updated. This may take a few minutes, and may delay system startup.
Recommended Action: No action is required – this message is for information only.

KERNEL_PANIC_EEPROM_RW_FAIL: Failed to %s kernel panic eeprom
Severity: Info
Explanation: Software encountered failure in eeprom read/write operation
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MUX_INIT_ERROR: Card %s mux failed to initialize
Severity: Error
Explanation: Software was unable to configure the board's smbus mux
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

NOT_PRESENT: Previously accessible hardware %s is no longer accessible.
Severity: Error
Explanation: Hardware which was previously accessible is no longer. Possibly the linecard was removed, or there is a PciE problem.
Recommended Action: Remove and insert the card

PCIE_COMM_ERROR: Multiple smbus access to Pcie switch %s have failed
Severity: Error
Explanation: Software detected a problem communicating to a pcie switch in the system
Recommended Action: If this problem persists, please contact your support representative for assistance.

PCIE_FATAL_ERROR: Uncorrectable Fatal PCIe Error detected. PCI device name: %s, address: %s, error count: %d.
Severity: Error
Explanation: The PCIe fabric is no longer reliable.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_NONFATAL_ERROR: Uncorrectable Non-Fatal PCIe Error detected. PCI device name: %s, address: %s, error count: %d.
Severity: Warning
Explanation: The PCIe fabric integrity is unaffected.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_SUPE_INIT_COMM_ERROR: Smbus access to the supervisors Pcie switch %s has failed
Severity: Error
Explanation: Software detected a problem communicating to a pcie switch in the system, this may cause linecard or fabric cards to fail to power on.
Recommended Action: If this problem persists, please contact your support representative for assistance.

PCIE_SWITCH_EGRESS_CREDIT_TIMEOUT: PCIE switch %s detected egress credit timeout on port %s
Severity: Info
Explanation: Possible hardware reset.
Recommended Action: No action required – this message if for information only

PCIE_SWITCH_NO_UPSTREAM: Unable to find upstream device for %s
Severity: Error
Explanation: Possible hardware removal.
Recommended Action: No action required – this message if for information only

PERR_CORRECTABLE: %s
Severity: Info
Explanation: A correctable parity error occurred in a switching ASIC. The affected entry will be repaired by software.
Recommended Action: No action is required – this message is for information only.

PERR_CORRECTED: %s
Severity: Info
Explanation: Software corrected a parity error that occurred in a switching ASIC. Normal traffic forwarding, if affected by this error, will resume.
Recommended Action: No action is required – this message is for information only.

PERR_FATAL: %s
Severity: Warning
Explanation: A fatal parity error occurred in a switching ASIC. The forwarding agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

PHYTN_LOADING_FIRMWARE: Loading PHY firmware on interface %s. Link on this interface will briefly go down.
Severity: Notice
Explanation: The firmware on the specified PHY is being reprogrammed.
Recommended Action: No action is required – this message is for information only.

PICASSO_MEM_ALLOC_FAILED: Picasso memory allocation failed
Severity: Warning
Explanation: Picasso failed to allocate memory for sso.Picasso will disable sso feature
Recommended Action: No action is required – this message is for information only.

PLXEEPROM_UPGRADED: Successfully upgraded PLX EEPROM to version in EOS image
Severity: Info
Explanation: Device was successfully upgraded.
Recommended Action: No action is required – this message is for information only.

PLXNIC_FATAL_ERROR: A PCIe fatal error occurred on the NIC port link between the supervisors.
Severity: Error
Explanation: PCIe NIC port link between the supervisors reported a PCIe uncorrectable fatal error.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

PLXNIC_NON_FATAL_ERROR: A PCIe non-fatal error occurred on the NIC port link between the supervisors.
Severity: Error
Explanation: PCIe NIC port link between the supervisors reported a PCIe uncorrectable non-fatal error.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

POWERCONTROLLER_BAD_OUTPUT_VOLTAGE: The power controller on %s detected a bad output voltage of %f on rail %s (Rail%u).
Severity: Error
Explanation: Software detected that the power controller is not supplying the correct voltage on one or more of its rails.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_BAD_STATUS: The %s power controller reports a status that indicates an error (status is %x)
Severity: Warning
Explanation: Software detected that the there is a power controller problem. By itself this message does not indicate a problem, but will help diagnose a more serious power controller issue.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_COMMUNICATION_ERROR: Communication error with the power controller on %s (%s).
Severity: Error
Explanation: An error occurred while giving commands over SMBus to a power controller.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_OUTPUT_VOLTAGE_RECOVERED: The %s power controller recovered from bad output voltage.
Severity: Error
Explanation: Software detected that the power controller has recovered from not supplying the correct voltage on one or more of its rails.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_FAILED: Software failed to power off the system. Power cycle the system manually to recover.
Severity: Error
Explanation: Software tried to power off the system but was unable because of a communication error with the system's CPLD.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_DATA_INVALID: Power supply %d returned unexpected status information multiple times.
Severity: Warning
Explanation: Status information from the power supply is currently unreliable. The power supply might no longer provide power to the system.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_DATA_OK: Power supply %d is returning expected status information.
Severity: Warning
Explanation: Status information from the power supply is reliable again.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_FAILED: Power supply %d has failed (%s).
Severity: Error
Explanation: The power supply has failed and is no longer providing power to the system.
Recommended Action: Replace the power supply.

POWER_SUPPLY_FAN_FAILURE_WARNING: Power supply %d fan failure predicted.
Severity: Warning
Explanation: The power supply has detected that one of its fans is likely to fail. The power supply will shut down once the fan fails.
Recommended Action: Replace the power supply when possible. Make sure that a redundant power supply is inserted and operating properly.

POWER_SUPPLY_INPUT_OVERCURRENT_WARNING: Power supply %d input overcurrent detected (latest reading %dA).
Severity: Warning
Explanation: The power supply detected a lower input voltage than expected.If the problem persists the power supply will shut down.
Recommended Action: Check the input power to the power supply.

POWER_SUPPLY_INPUT_OVERPOWER_WARNING: Power supply %d input overpower detected (latest reading %dW).
Severity: Warning
Explanation: The power supply has flagged an output overpower warning. If the problem persists the power supply will shut down.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_INPUT_OVERVOLTAGE_WARNING: Power supply %d input overvoltage detected (latest reading %dV).
Severity: Warning
Explanation: The power supply has flagged an input overvoltage warning. If the problem persists the power supply will shut down.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_INPUT_UNDERVOLTAGE_WARNING: Power supply %d input undervoltage detected (latest reading %dV).
Severity: Warning
Explanation: The power supply has flagged an input undervoltage warning. If the problem persists the power supply will shut down.
Recommended Action: Check the input power to the power supply.

POWER_SUPPLY_OK: Power supply %d has recovered.
Severity: Error
Explanation: The power supply had previously failed but is now ok.
Recommended Action: While the power supply has recovered for now, it should still be replaced soon as possible.

POWER_SUPPLY_OUTPUT_CURRENT_FAILURE: Power supply %d has failed because output current (%dA) dropped below the minimum allowed value (%dA).
Severity: Error
Explanation: The power supply has failed and might no longer provide power to the system.
Recommended Action: Replace the power supply.

POWER_SUPPLY_OUTPUT_CURRENT_OK: Power supply %d has recovered from being declared as failed because of the output current (%dA) being below the minimum allowed value (%dA).
Severity: Error
Explanation: The power supply had previously failed but is now ok.
Recommended Action: While the power supply has recovered for now, it should still be replaced as soon as possible.

POWER_SUPPLY_OUTPUT_OVERCURRENT_WARNING: Power supply %d output overcurrent detected (latest reading %dA).
Severity: Warning
Explanation: The power supply detected that it was providing a larger output current than expected. This can happen if the system is drawing more power than the power supply can provide. If the problem persists the power supply will shut down.
Recommended Action: Check that the power supply can provide enough power to meet the system's requirements. If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_OVERPOWER_WARNING: Power supply %d output overpower detected (latest reading %dW).
Severity: Warning
Explanation: The power supply has flagged an output overpower warning. If the problem persists the power supply will shut down.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_OVERVOLTAGE_WARNING: Power supply %d output overvoltage detected (latest reading %dV).
Severity: Warning
Explanation: The power supply has flagged an output overvoltage warning. If the problem persists the power supply will shut down.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_UNDERCURRENT_FAILURE: Power supply %d has failed because the reported output current (%sA) is outside the valid range. Overall system load is %sA.
Severity: Error
Explanation: The power supply has failed and is no longer providing power to the system.
Recommended Action: Replace the power supply.

POWER_SUPPLY_OUTPUT_UNDERVOLTAGE_WARNING: Power supply %d output undervoltage detected (latest reading %dV).
Severity: Warning
Explanation: The power supply has flagged an output undervoltage warning. If the problem persists the power supply will shut down.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OVERHEAT_WARNING: Power supply %d is overheating (%s)
Severity: Warning
Explanation: The power supply is overheating. If the problem persists the power supply will shut down.
Recommended Action: Check that the power supply's air intake and outlet vents are not blocked. Check that the switch is operating within the recommended ambient temperature range. If the problem persists, contact your support representative. Otherwise, no action is required.

REG_ACCESS_FAILED: Cannot read %s (%s) registers.
Severity: Error
Explanation: Failed to read a chip's registers. This means either the chip is faulty, or PciE access has failed.
Recommended Action: Reset the linecard

REPEATER_COMM_ERROR: Smbus access to repeater %s-%s has failed
Severity: Error
Explanation: Software detected a problem communicating to a repeater in the system
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RETIMER_COMM_ERROR: Smbus access to retimer %s has failed
Severity: Error
Explanation: Software detected a problem communicating to a retimer in the system
Recommended Action: If this problem persists, please contact your support representative for assistance.

SCHAN_DMA_ERROR: Software detected an S-Channel Accelerator DMA engine error on %s.
Severity: Error
Explanation: Each SandFap agent periodically executes diagnostic DMA read operations against each switching ASIC. An error occurred on the latest DMA read attempt.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SMBUS_ERROR: Card %s mux poll failed %d times before reappearing
Severity: Error
Explanation: Software detected a problem communicating to a smbus device
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STANDBYCPLD_COMMUNICATION_ERROR: Communication error with the standby domain CPLD %s.
Severity: Error
Explanation: An error occurred while giving commands over SMBus to a standby domain CPLD.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SUPERVISOR_IDENTIFICATION_FAILED: Failed to identify the slot id of the supervisor
Severity: Emergency
Explanation: Hardware returned inconsistent results when determining the slot id of the supervisor from hardware. System functionality may be severely limited.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SUPERVISOR_PCIE_LINK_ERROR: The Pcie link to the CPU has failed
Severity: Emergency
Explanation: Software detected a link failure between the CPU and one of its two Pcie switches, this will prevent the system operating correctly
Recommended Action: Reboot the switch to try to recover the failure and contact your support representative for assistance.

SUPERVISOR_PCIE_SWITCHOVER: %s is being switched over to the standby supervisor
Severity: Info
Explanation: Software detected a change in the active supervisor, hardware control is being transferred to the this supervisor
Recommended Action: No action required.

SUPERVISOR_PCIE_SWITCHOVER_FAILURE: Unable to switch %s over to the standby supervisor
Severity: Error
Explanation: Software detected a change in the active supervisor, but was unable to switch this card over to the standby supervisor
Recommended Action: If this problem persists, please contact your support representative for assistance.

SUPERVISOR_PCIE_SWITCH_BUS_ERROR: Unable to switch %s over to the standby supervisor
Severity: Error
Explanation: Possible hardware removal.
Recommended Action: No action required – this message if for information only

SUPERVISOR_PCIE_SWITCH_CONFIG_ERROR: The Pcie switch %s port %s is misconfigured, one or more cards will fail to operate
Severity: Emergency
Explanation: Software detected a configuration error in the Pcie switch, this will prevent the system operating correctly
Recommended Action: Reboot the switch to try to recover the failure and contact your support representative for assistance.

SYSTEM_ABOOT_IDENTIFICATION_FAILED: Failed to identify the aboot version on this system
Severity: Warning
Explanation: The aboot version could not be identified on this system. If the aboot version is not compatible with the boot image, the system may not behave reliably.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_ABOOT_INCOMPATIBLE: Aboot version %s found on this system, version number ¿= %s is required
Severity: Emergency
Explanation: The Aboot version on this system is not compatible with the current boot image. The system will be unusable.
Recommended Action: Please upgrade the Aboot version or downgrade the boot image configured on this system.

SYSTEM_IDENTIFICATION_FAILED: Failed to identify this system
Severity: Emergency
Explanation: A fatal error occurred while attempting to identify this sytem. This may be a hardware or software failure. Upgrading software to a newer release may be required. System functionality will be severely limited.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_IDENTIFICATION_FALLBACK: Unable to identify system details. Falling back to system description programmed into hardware.
Severity: Info
Explanation: The detailed hardware description is unknown in this software version. The description programmed into the hardware is being used.
Recommended Action: No action is required – this message is for information only.

VERIFY_AGENT_FAILED: Verification of forwarding agent failed.
Severity: Error
Explanation: %s Agent will restart
Recommended Action: No action is required – this message is for information only.

VERIFY_AGENT_RETRY_NEEDED: Verification of forwarding agent did not complete.
Severity: Info
Explanation: %s
Recommended Action: No action is required – this message is for information only.

VRMFAILURE: Fatal hardware error of VRM %s
Severity: Emergency
Explanation: The given VRM can no longer be accessed. Functionality of the containing fru may be severely limited.
Recommended Action: This is a critical condition. Contact the Arista TAC (technical support) group and send them this message. This system may be unusuable until this issue is resolved.

VRMFATALERROR: Fatal power error detected by VRM %s
Severity: Emergency
Explanation: The VRM detected a fatal power error. Functionality of the containing fru will be severely limited.
Recommended Action: This is a critical condition. Contact the Arista TAC (technical support) group and send them this message. This system may be unusuable until this issue is resolved.

WATCHDOG_ERROR: Reboot due to system watchdog
Severity: Warning
Explanation: The system rebooted due to a watchdog timeout.
Recommended Action: Harmless if seen infrequently, but may indicate a serious hardware or software problem if seen often.

2.26 IGMP Messages

INTFID_CONFLICT: Interface %a is being used both implicitly and explicitly for Igmp groups. Implicitly by an EOS Agent, eg. Vxlan and its also configured explicity Please choose different interface names for them.
Severity: Warning
Explanation: Igmp interface names are in conflict with Igmp Agent and another Agent, eg. Vxlan Agent
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VRF_UNSUPPORTED: Interface %a has a vrf %a configured
Severity: Warning
Explanation: Enabling IGMP on a VRF enabled interface is not supported.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.27 IGMPSNOOPING Messages

GROUP_LIMIT_EXCEEDED: IGMP group limit of %d groups exceeded in VLAN %d
Severity: Warning
Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN exceeds the configured number allowed for this VLAN.
Recommended Action: Increase the max-groups limit for the VLAN or configure the hosts in the VLAN to join fewer groups.

GROUP_LIMIT_NO_LONGER_EXCEEDED: IGMP group limit of %d groups no longer exceeded in VLAN %d
Severity: Warning
Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN no longer exceeds the VLAN's configured max-groups limit.
Recommended Action: No action is required – this message is for information only.

GROUP_LIMIT_NO_LONGER_EXCEEDED_NO_LIMIT: IGMP group limit no longer exceeded in VLAN %d
Severity: Warning
Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN no longer exceeds the VLAN's previously configured max-groups limit. Currently no limit is configured.
Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all IgmpSnooping groups%s.
Severity: Error
Explanation: The switch is unable to program all IgmpSnooping groups because the IgmpSnooping groups exceed the available hardware resources.
Recommended Action: To solve this issue, reconfigure the network to reduce the number of IgmpSnooping groups.When the number of groups reduces, the switch automatically programs any unprogrammed groups in hardware.

HW_RESOURCE_NORMAL: All multicast routes are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the IgmpSnooping groups in hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

NOT_EXPECT_ROUTER: Router detected in VLAN %d
Severity: Warning
Explanation: The switch report-flooding feature is designed for pure L2 environment
Recommended Action: Please correct network configuration

NO_IGMP_QUERIER: No IGMP querier detected in VLAN %d. IGMP report received from %d on %d for %d
Severity: Info
Explanation: The switch did not detect an IGMP querier running in the specified VLAN. This will cause multicast traffic to be flooded to all members of the VLAN.
Recommended Action: Configure an IGMP querier for the specified VLAN.

QUERY_VERSION_CONFIGURED_DISCREPANCY: IGMP version %d query heard on vlan %d by a querier configured to version %d.
Severity: Warning
Explanation: The switch detected an IGMP query message of a different version than the version that is currently configured.
Recommended Action: Configure all queriers on the network to use the same querier version

2.28 INTF Messages

MAX_MTU_EXCEEDED: Configured mtu (%d) exceeds the maximum mtu (%d) for interface %s
Severity: Warning
Explanation: This interface was configured with an mtu value that exceeds the maximum mtu supported for this type of interface
Recommended Action: Change the interface configuration to be consistent with the maximum supported mtu for this interface type.

RELOAD_HITLESS_CONFIG_TIMEOUT: Time out waiting for config to be applied on all interfaces.
Severity: Warning
Explanation: This may result in some traffic disruption during reload hitless.
Recommended Action: No action is required – this message is for information only.

SNMP_UNSUPPORTED: Interface %s is not supported by the Snmp agent
Severity: Error
Explanation: The software component that provides this type of interface does not properly support the Snmp agent, so counters and other information for this interface will not be available via SNMP.
Recommended Action: Contact your support representative.

2.29 IP6ROUTING Messages

DAD_FAILED: IPv6 DAD failed on interface %s for address %s
Severity: Warning
Explanation: IPv6 Duplicate Address Detection has failed.
Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_MAX_PATHS_EXCEEDED: ECMP route %a has exceeded number of allowed paths.
Severity: Info
Explanation: An ecmp route has more paths than allowed by the Resilient Ecmp Feature. The extra paths will not be programmed in hardware.
Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_PATH_NOT_PROGRAMMED: Path %a not programmed for ECMP route %a
Severity: Info
Explanation: Path exceeds number of allowed paths in a resilient ecmp route. Path will not be programmed in hardware.
Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all routes
Severity: Error
Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the routing table exceeds the available hardware resources.
Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table. When the routing table size reduces, the switch automatically programs any unprogrammed routes in hardware.

HW_RESOURCE_NORMAL: All routes are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the routes in the routing table, in hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

MAX_PATHS_EXCEEDED: Number of paths (%d) for adj %d higher than max supported value (%d)
Severity: Error
Explanation: The system is trying to allocate an ecmp route with more paths than the maximum allowed by the hardware. The route cannot be allocated.
Recommended Action: No action is required – this message is for information only.

URPF_IPV4_CONFLICT: IPv6 Unicast RPF on %s disabled, conflicts with IPv4 Unicast RPF
Severity: Warning
Explanation: IPv6 Unicast RPF on the listed interface is disabled because it conflicts with IPv4 Unicast RPF on the interface
Recommended Action: No action is required – this message is for information only.

URPF_IPV4_NO_CONFLICT: IPv6 Unicast RPF on %s re-enabled. Doesn't conflict with IPv4 Unicast RPF
Severity: Warning
Explanation: IPv6 Unicast RPF on the listed interface is re-enabled because it no longer conflicts with IPv4 Unicast RPF on the interface
Recommended Action: No action is required – this message is for information only.

2.30 IRA Messages

RELOAD_HITLESS_INTF_CONFIG_RESTORATION_TIMEOUT: Timed out waiting for IP configuration to be applied on all interfaces.
Severity: Warning
Explanation: This may result in some traffic disruption during ASU.
Recommended Action: No action is required – this message is for information only.

RELOAD_HITLESS_INTF_VRF_RESTORATION_TIMEOUT: Timed out waiting for vrf configuration to be applied on all interfaces.
Severity: Warning
Explanation: This may result in some traffic disruption during ASU.
Recommended Action: No action is required – this message is for information only.

2.31 ISIS Messages

ADJACENCY_CHANGE: Neighbor %a state changed to %s
Severity: Warning
Explanation: A neighbor's IS-IS adjacency state has changed.
Recommended Action: Usually, no action is required. This information can be useful for troubleshooting IS-IS if the switch is not properly maintaining adjacency with one or more neighbors.

2.32 KERNELFIB Messages

AGENT_RESTART: KernelFib netlink socket has encountered ENOBUF %d times.
Severity: Notice
Explanation: Restarting the Agent.
Recommended Action: No action is required – this message is for information only.

THROTTLE_REDUCED: KernelFib netlink socket has encountered ENOBUF.
Severity: Notice
Explanation: Limiting the number of outstanding netlink requests to %d.
Recommended Action: No action is required – this message is for information only.

2.33 LACP Messages

ACTOR_CHURN: LACP Actor Churn Detected on %s
Severity: Warning
Explanation: LACP could not come to a decision on an aggregate
Recommended Action: Investigate the LACP configuration on this system and its peer. Ensure that all ports in the aggregate are connected to the same remote system, and are all configured to be in the aggregate on the remote system.

FALLBACK_INACTIVE: Reverting to normal LACP negotiation on interface %s.
Severity: Notice
Explanation: An LACP message was received on a member interface of a port-channel after LACP fallback mode became active. When this happens, LACP fallback mode is deactivated and normal LACP negotiation is resumed.
Recommended Action: No action is required – this message is for information only.

FALLBACK_INDIVIDUAL: Activating members of interface %s as individual switchports without sucessful LACP negotation
Severity: Notice
Explanation: The LACP fallback timer expired on a port-channel interface because no LACP messages were received on any of its member interfaces. All members of this interface are being made active as individual switchports.
Recommended Action: No action is required – this message is for information only.

FALLBACK_MISMATCH: Unable to enter fallback mode on interface %s due to mismatched fallback configuration with MLAG peer.
Severity: Warning
Explanation: The port-channel is unable to enter fallback mode because the peer and local switches are configured with different fallback modes.
Recommended Action: Configure the port-channel with the same fallback mode on each peer

FALLBACK_STATIC: Activating one member of interface %s without successful LACP negotiation.
Severity: Notice
Explanation: The LACP fallback timer expired on a port-channel interface because no LACP messages were received on any of its member interfaces. Will attempt to make one member of the port-channel statically active until LACP control traffic resumes.
Recommended Action: No action is required – this message is for information only.

PARTNER_CHURN: LACP Partner Churn Detected on %s
Severity: Warning
Explanation: LACP could not come to a decision on an aggregate
Recommended Action: Investigate the LACP configuration on this system and its peer. Ensure that all ports in the aggregate are connected to the same remote system, and are all configured to be in the aggregate on the remote system. If not associated with simultaneous actor churn, check if the remote system has aggregation limits that prevent this port from joining the aggregate.

RXDOT1QPKT: An 802.1Q tagged LACP packet was received and discarded on interface %s.
Severity: Warning
Explanation: The switch received an 802.1Q tagged LACP packet. Arista Networks switches drop these packets without further processing, so the protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its LACP packets untagged.
Recommended Action: The switch received and discarded an 802.1Q tagged LACP packet. LACP will not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its LACP packets untagged.

2.34 LAG Messages

MEMBER_HW_LIMIT_EXCEEDED: Interface %s can not be added to %s in hardware; it already contains the maximum number of members (%d).
Severity: Error
Explanation: Port-channel group member limit exceeded.
Recommended Action: Please remove this member from the port-channel group.

MEMBER_NO_HW_ID: Interface %s, which is being removed from %s, does not have a valid hardware ID. This may not be a problem if the interface was previously ignored due to membership overflow.
Severity: Warning
Explanation: Port-channel member missing hardware ID.
Recommended Action: No action is required – this message is for information only.

2.35 LAUNCHER Messages

BOOT_STATUS: 'reload hitless' reconciliation complete.
Severity: Info
Explanation: Prioritized agents participating in 'reload hitless' have completed reconciliation.
Recommended Action: No action is required – this message is for information only.

PROCESS_MISCONFIG: Internal error: process '%s' in role '%s' is misconfigured and can not be started. This is a bug! Reason: %s
Severity: Error
Explanation: The named process is misconfigured, and can not be started. The feature it implements can not be enabled. The system is at least partially broken. This is probably due to a bug.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

PROCESS_RESTART: Configuring process '%s' to restart in role '%s'
Severity: Info
Explanation: Launcher is configuring process '%s' to be restarted by ProcMgr due to a changed process configuration.
Recommended Action: No action is required – this message is for information only.

PROCESS_START: Configuring process '%s' to start in role '%s'
Severity: Info
Explanation: Launcher is configuring process '%s' to be started by ProcMgr
Recommended Action: No action is required – this message is for information only.

PROCESS_STOP: Configuring process '%s' to stop in role '%s'
Severity: Info
Explanation: Launcher is configuring process '%s' to be stopped by ProcMgr
Recommended Action: No action is required – this message is for information only.

PROCMGR_WARMSTART: Initiating warm start of 'ProcMgr (worker)'
Severity: Info
Explanation: Launcher is initiating a ProcMgr worker warm start in order to get ProcMgr to start newly-configured agents, or to stop de-configured agents. This message should have been preceded by at least one message regarding process start, restart, or stop.
Recommended Action: No action is required – this message is for information only.

2.36 LINEPROTO Messages

TRANSIENT_DOWN: Line protocol on Interface %s briefly went down %d times since last logged
Severity: Notice
Explanation: The link-layer connection on the given interface went down very briefly. This is a symptom of an unreliable physical connection. Check the physical connection (e.g., cable) between the devices.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UPDOWN: Line protocol on Interface %s, changed state to %s
Severity: Notice
Explanation: The link-layer connection on the given interface has come up or down. If it is not up, then communication with our link partner is not possible.
Recommended Action: If the connection has gone down unexpectedly, check the physical connection (e.g., cable) between the devices and the configuration of the link on both ends.

2.37 LLDP Messages

NEIGHBOR_GONE: Received a shutdown frame from LLDP neighbor with chassisId %s and portId %s on interface %s
Severity: Notice
Explanation: An LLDP neighbor was deleted from the neighbor table since an LLDPDU with a TTL of 0 was received from that neighbor.
Recommended Action: No action is required – this message is for information only.

NEIGHBOR_NEW: LLDP neighbor with chassisId %s and portId %s added on interface %s
Severity: Notice
Explanation: A new LLDP neighbor was added to the neighbor table.
Recommended Action: No action is required – this message is for information only.

NEIGHBOR_TIMEOUT: LLDP neighbor with chassisId %s and portId %s timed out on interface %s
Severity: Notice
Explanation: An LLDP neighbor was deleted from the neighbor table since it timed out.
Recommended Action: No action is required – this message is for information only.

REMOTE_TABLES_CLEARED: LLDP neighbor table cleared by %s on %s
Severity: Notice
Explanation: The LLDP neighbor table was cleared by a CLI command.
Recommended Action: No action is required – this message is for information only.

RX_RATELIMIT: Exceeded Rx LLDPDU rate limit on %s (more than %d LLDPDUs in %f seconds)
Severity: Warning
Explanation: The switch received too many LLDPDUs on a port in too short a period of time, so we dropped the most recent received LLDPDU.
Recommended Action: This could indicate a mis-configured neighbor, or a network loop. Check the configuration of the neighbor connected to the interface and configure the LLDPDUs to be sent at a reasonable rate and ensure there are no network loops.

2.38 LOGMGR Messages

CONSOLE_LOGGING_ERROR: An error occurred initializing console logging
Severity: Warning
Explanation: Console logging may not function properly because an error occurred while setting access permissions.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TCP_SOURCE_INTERFACE_UNSUPPORTED: Source-Interface spoofing requested with TCP.
Severity: Warning
Explanation: Configuring logging source-interface with a TCP host is not supported. The source-interface option will be ignored.
Recommended Action: Please choose either UDP with source-interface spoofing or TCP without source-interface spoofing.

TIMESTAMP_FORMAT_ERROR: Unknown timestamp format '%s' was specified
Severity: Error
Explanation: Logging to may not function as expected because an unknown timestamp format was requested. A defaulttimestamp format will be used intstead
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.39 LOOPBACK Messages

MODE_CHANGE: The loopback mode of interface %s has changed to %s
Severity: Info
Explanation: The system detected that the loopback mode of an interface has changed
Recommended Action: No action is required – this message is for information only.

2.40 LOOPPROTECT Messages

INTF_UP: Bringing interface %s back up after a loop was detected
Severity: Info
Explanation: Loop protection is configured to bring an interface back up after a period of time has elapsed.
Recommended Action: No action is required – this message is for information only.

RX_OTHER: Received a malformed Loop Protection packet on interface %s
Severity: Info
Explanation: This may be caused by other switches on the network using ether type 0x88B7, but the source mac for the packet matched this switch.
Recommended Action: No action is required – this message is for information only.

THROTTLE: Too many loop protection packet transmits in a second. Throttling.
Severity: Warning
Explanation: Loop protection is configured to rate-limit the number of packets sent per second and this limit was reached.
Recommended Action: No action is required – this message is for information only.

2.41 LSPPING Messages

SERVER_ERROR: %s
Severity: Error
Explanation: Lsp Ping server hit an error during operation.
Recommended Action: No action is required – this message is for information only.

2.42 MAPREDUCEMONITOR Messages

TASKTRACKER_ACTIVE: TaskTracker %s changed state to active
Severity: Info
Explanation: TaskTracker resolved as locally attached by the switch
Recommended Action: No action is required – this message is for information only.

TASKTRACKER_INACTIVE: TaskTracker %s changed state to inactive due to: %s
Severity: Info
Explanation: TaskTracker cannot be determined to be locally attached either due to unresolved ARP entry from TaskTracker IP address or failure to resolve the TaskTracker name to an IP address.The log message provides the cause.
Recommended Action: Check the connectivity from the switch to the TaskTracker and if TaskTracker name to IP address resolution can be performed from the switch.

TASKTRACKER_REMOVED: TaskTracker %s is not longer part of the Hadoop cluster %s
Severity: Info
Explanation: The TaskTracker is no longer part of the cluster as announced by the JobTracker.
Recommended Action: No action is required – this message is for information only.

2.43 MAX24305 Messages

INIT_FAILED: Possible hardware error with the Max24305 chip.
Severity: Error
Explanation: Initialization of the Max24305 chip has failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.44 MDIO Messages

AGENT_OUTSTANDING_TXN_NOTICE: The Mdio Agent has found unfinished transactions at startup even after waiting for %d seconds.
Severity: Notice
Explanation: The Mdio Accelerator HW is going to be reset which may cause Phy devices to be eventually reset due to unfinished transactions
Recommended Action: No action is required – this message is for information only.

2.45 MIRRORING Messages

ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all mirror ACLs
Severity: Error
Explanation: The switch is unable to program all ACLs due to insufficient hardware resources.
Recommended Action: Reconfigure your ACLs to reduce the size and/or complexity of the ACL.

NOSESSIONGROUPS: Insufficient hardware resources to allocate mirror session %s. The current limit on the number of mirror sessions is %d.
Severity: Warning
Explanation: It is not possible to program the mirror session in hardware due to lack of hardware resources.
Recommended Action: Use fewer mirror sessions.

SESSION_LIMIT_EXCEEDED: Monitor session %s is inactive, because it exceeds the maximum number of supported monitor sessions %d
Severity: Warning
Explanation: When the maximum number of supported monitor sessions is exceeded, newly created monitor sessions are not programmed into hardware.
Recommended Action: Reduce the number of configured monitor sessions.

TIMESTAMP_WITH_TRUNCATE_NOTSUPPORTED: Timestamping on interface %s(%s) does not work with truncation configured on mirror session %s.
Severity: Warning
Explanation: The trunction of the mirrored packet will cause the timestamp to be lost.
Recommended Action: Disable truncation on mirror session.

VOQ_NOT_DRAINED: VOQ %d on Fap %s for mirror destination %s is not draining. Queue size is %d bytes.
Severity: Error
Explanation: Egress port queue is in inconsistent state. This can lead to stuck port resulting in packet drops. The port is unusable until the forwarding agent restarts.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.46 MLAG Messages

INTF_ACTIVE: Local interface %s and peer interface %s are link up. MLAG %s is active.
Severity: Info
Explanation: Both local and peer interfaces assigned to an MLAG are link up.
Recommended Action: No action is required – this message is for information only.

INTF_ESTABLISHED: Interface %s is in MLAG %s with peer interface %s.
Severity: Info
Explanation: Both peers added an enabled local interface to the same MLAG.
Recommended Action: No action is required – this message is for information only.

INTF_INACTIVE_LOCAL: Local interface %s is link down. MLAG %s is inactive.
Severity: Warning
Explanation: The local interface that is assigned to an MLAG is link down. The peer must handle all of the traffic on that link until the MLAG is active.
Recommended Action: Ensure that the local interface comes up.

INTF_INACTIVE_PEER: Interface %s is link down on the MLAG peer. MLAG %s is inactive.
Severity: Warning
Explanation: The peer interface that is assigned to an MLAG is down. This chassis must handle all of the traffic on the link until the MLAG is active.
Recommended Action: Ensure that the peer interface comes up.

INTF_INACTIVE_PEER_LINK_DOWN: The MLAG peer is down. MLAG %s became inactive.
Severity: Warning
Explanation: This chassis must handle all of the traffic on the link until the MLAG peer is up.
Recommended Action: Ensure that the MLAG peer resumes operation.

INTF_UNESTABLISHED: Interface %s is no longer in MLAG %s.
Severity: Info
Explanation: A local interface is no longer part of an MLAG. Either it or its counterpart on the peer was either disabled or removed from the MLAG.
Recommended Action: No action is required – this message is for information only.

PEER_EVENT_CONNECTION_CLOSED: The TCP session with the MLAG peer was closed.
Severity: Warning
Explanation: The TCP connection between the MLAG peers was broken.
Recommended Action: Wait until MLAG reconnects with the peer or enters the inactive state.

PEER_EVENT_HEARTBEAT_TIMEOUT: MLAG stopped receiving heartbeats from the peer.
Severity: Warning
Explanation: The TCP connection between the peers is intact, but no heartbeat was received from the peer during the expected duration.
Recommended Action: Wait until MLAG reconnects with the peer or enters the inactive state.

PEER_EVENT_RECONNECT: The connection with MLAG peer %s was reestablished. MLAG state remains %s.
Severity: Warning
Explanation: MLAG successfully renegotiated with its peer.
Recommended Action: None

PEER_EVENT_STP_STABLE_TIMEOUT: MLAG did not receive an STP stability response from the peer %s
Severity: Warning
Explanation: An STP stability request was sent to the peer but no response was received during the expected duration.
Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

RELOAD_DELAY_ENDING: Mlag reload-delay period%swill end in %s seconds
Severity: Info
Explanation: Non peer-link interfaces will be enabled once reload-delay period is over
Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_CONNECTION_CLOSED: MLAG is inactive with peer %s because the TCP session was closed
Severity: Error
Explanation: The TCP connection between the MLAG processes was broken.
Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

STATE_INACTIVE_FWD_AGENT_RESTART: MLAG is inactive with peer %s because the forwarding agent restarted
Severity: Info
Explanation: The forwarding agent restarted, causing the peer relationship to end.
Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_HEARTBEAT_TIMEOUT: MLAG is inactive with peer %s because it stopped receiving heartbeats from the peer
Severity: Error
Explanation: The TCP connection between the peers is intact, but no heartbeat was received from the peer during the expected duration.
Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

STATE_INACTIVE_HW_NOT_READY: MLAG is inactive because the hardware is not ready.
Severity: Error
Explanation: Hardware resources needed for MLAG functionality are not ready.
Recommended Action: Check the forwarding agent logs to find the details of the resources MLAG is waiting for.

STATE_INACTIVE_LOCAL_CONFIG: MLAG is inactive with peer %s because the MLAG configuration changed
Severity: Info
Explanation: The MLAG configuration changed, causing the peer relationship to end.
Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_LOCAL_INTERFACE_DOWN: MLAG is inactive because the local interface (%s) is down.
Severity: Error
Explanation: The configured local VLAN interface is down. The MLAG process is unable to accept connections from its peer.
Recommended Action: Bring up the local interface

STATE_INACTIVE_PEER_CONFIG: MLAG is inactive with peer %s because the peer's MLAG configuration changed
Severity: Info
Explanation: The MLAG configuration of the peer changed, causing the peer relationship to end.
Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_PEER_LINK_NOT_PRESENT: MLAG is inactive because the peer link (%s) connected to peer %s is not present
Severity: Error
Explanation: The configured peer link is not present. MLAG must become inactive because it cannot communicate with the peer.
Recommended Action: Check the transceivers and linecards containing the peer link(s).

STATE_PRIMARY: MLAG is active as primary with peer %s and peer link %s
Severity: Info
Explanation: MLAG protocol negotiation is complete, with this chassis assuming the primary role.
Recommended Action: No action is required – this message is for information only.

STATE_PRIMARY_PEER_LINK_DOWN: MLAG failed over to (or remained at) the primary state because the peer link (%s) connected to peer %s is down
Severity: Warning
Explanation: The configured peer link is down; MLAG assumed the peer is dead and is now primary.
Recommended Action: Check on the health of the other MLAG chassis

STATE_PRIMARY_PEER_LINK_UP: MLAG connection restored with peer %s after the peer link (%s) came back up. MLAG will retain the primary role
Severity: Warning
Explanation: The configured peer link is up; MLAG renegotiated with the peer and will remain primary.
Recommended Action: No action is required – this message is for information only.

STATE_SECONDARY: MLAG is active as secondary with peer %s and peer link %s
Severity: Info
Explanation: MLAG protocol negotiation is complete, with this chassis assuming the secondary role.
Recommended Action: No action is required – this message is for information only.

STATE_VERSION_INCOMPATIBLE: MLAG will not negotiate with peer %s due to a version incompatibility
Severity: Error
Explanation: The current software image is incompatible with the peer's software image. MLAG protocol negotiation will be unsuccessful.
Recommended Action: Load a compatible software image on one of the peers. Refer to the release notes for the list of compatible images.

TCAM_HW_RESOURCE_FULL: Egress TCAM resources are insufficient to program MLAG peer link %s
Severity: Error
Explanation: The switch is unable to program MLAG peer link configuration due to insufficient Egress TCAM resources.
Recommended Action: Reconfigure your Egress ACLs to free up some resources for MLAG.

TCAM_HW_RESOURCE_RECOVERED: MLAG peer link %s is programmed.
Severity: Error
Explanation: The switch was able to apply MLAG peer link configuration in Egress TCAM.
Recommended Action: No action is required – this message is for information only.

2.47 MMODE Messages

INTF_PROFILE_CHANGE: For interface %s, interface profile changed to %s (was %s)
Severity: Notice
Explanation: A different interface profile was picked based on precedence because the same same interface was part of multiple units.
Recommended Action: No action is required – this message is for information only.

MAINT_OP_WARNING: Unit config is deleted for unit %s. The unit is still undergoing maintenance operation.
Severity: Warning
Explanation: The maintenance status for the unit would be lost.
Recommended Action: Please check the configuration.

MAINT_STAGE_PROGRESS: Stage %s %s for unit %s
Severity: Info
Explanation: Stage Progression logs
Recommended Action: No action is required – this message is for information only.

MAINT_UNIT_STATE_CHANGE: Maintenance unit state changed for unit %s. Old State %s, New State %s
Severity: Notice
Explanation: Maintenance unit state change log
Recommended Action: No action is required – this message is for information only.

2.48 MROUTE Messages

FASTDROP_LIMIT_EXCEEDED: This device has reached the software limit for fastdrop entries.
Severity: Warning
Explanation: Increase the number of allowed fastdrop entries or some rpf failures will continue coming to cpu.
Recommended Action: No action is required – this message is for information only.

FASTDROP_LIMIT_NO_LONGER_EXCEEDED: This device is no longer at the software limit for fastdrop entries.
Severity: Warning
Explanation: Rpf failures will install fastdrop entries and no longer come to cpu.
Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all multicast routes%s.
Severity: Error
Explanation: The switch is unable to program all multicast routes because the multicast routing table exceeds available hardware resources
Recommended Action: To solve this issue, reconfigure the network to reduce the size of the multicast routing table. When the routing table size reduces, the switch automatically programs any unprogrammed multicast routes in hardware.

HW_RESOURCE_NORMAL: All multicast routes are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the multicast routes in hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

2.49 MRP Messages

ERROR: %s
Severity: Info
Explanation: MRP error occurred
Recommended Action: No action is required – this message is for information only.

JOIN: MRP Join received on %s, attrType: %s, key: %s, state: %s, event: %s
Severity: Info
Explanation: MRP Join was received on an interface
Recommended Action: No action is required – this message is for information only.

LV: MRP Lv %s on %s, attrType: %s, key: %s, state: %s, event: %s
Severity: Info
Explanation: MRP Lv was handled on an interface
Recommended Action: No action is required – this message is for information only.

2.50 MSDP Messages

GROUP_LIMIT: SA from peer %a, RP %a for (%a, %a) exceeded group-limit of %d for source prefix %s
Severity: Warning
Explanation: Due to group-limit configuration, a received SA was rejected i.e. not stored in the SA cache.
Recommended Action: No action is required – this message is for information only.

MAX_SA_CACHE_SIZE: SA from peer %a, RP %a for (%a, %a) exceeded limit %d on max size of SA cache
Severity: Warning
Explanation: Due to limits on the total size of the SA cache, a received SA was rejected i.e. not stored in the cache.
Recommended Action: Deconfiguring a peer will cause that peer's SAs to age out of the cache, making room for more SAs.

NO_RPF_PEER: MSDP RPF Peer for Pim RP %a does not exist.
Severity: Warning
Explanation: MSDP is unable to find a RPF Peer for the Pim RP using MSDP RFC's rules.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PEER_CONNECTED: MSDP connection with peer %a is up.
Severity: Info
Explanation: MSDP peering with the peer is successful, the peers will now exchange multicast sources.
Recommended Action: No action is required – this message is for information only.

PEER_DISCONNECTED: MSDP connection with peer %a is down.
Severity: Info
Explanation: MSDP peering with the peer is unsuccessful, the peers will not exchange multicast sources.
Recommended Action: No action is required – this message is for information only.

PEER_SETUP_ERROR: %s while trying to set up MSDP connection with peer %a.
Severity: Warning
Explanation: A socket error occured while attempting to connect with this peer.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SA_LIMIT: SA from peer %a, RP %a for (%a, %a) exceeded sa-limit of %d
Severity: Warning
Explanation: Due to sa-limit configuration, a received SA was rejected i.e. not stored in the SA cache.
Recommended Action: No action is required – this message is for information only.

SETUP_ERROR: Error '%s' occurred while trying to set up socket to listen for connections from MSDP peers.
Severity: Warning
Explanation: A socket error occured while attempting to start listening for MSDP peers. The Msdp agent will restart in order to recover from this error.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNKNOWN_PACKET_TYPE: An unknown MSDP packet (type: %d) received and discarded.
Severity: Warning
Explanation: A MSDP packet type that is not handled by the implementation was received.
Recommended Action: No action is required – this message is for information only.

2.51 MSRP Messages

BW_ALLOC_FAIL: Bandwidth %d kbps allocation failed for listener on %s and streamId 0x%s
Severity: Info
Explanation: MSRP Bandwidth could not be allocated for a listener
Recommended Action: No action is required – this message is for information only.

BW_ALLOC_SUCCESS: Bandwidth %d kbps successfully allocated for listener on %s and streamId 0x%s
Severity: Info
Explanation: MSRP Bandwidth was allocated for a listener
Recommended Action: No action is required – this message is for information only.

BW_DEALLOC: Bandwidth %d kbps deallocated for listener on %s and streamId 0x%s
Severity: Info
Explanation: MSRP Bandwidth was deallocated for a listener
Recommended Action: No action is required – this message is for information only.

DOMAIN_JOIN: Domain Join %s on %s: Class: %d, Priority: %d, SrVID: %d
Severity: Info
Explanation: MSRP Domain message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

DOMAIN_LV: Domain Lv %s on %s: Class: %d, Priority: %d, SrVID: %d
Severity: Info
Explanation: MSRP Domain message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

ERROR: %s
Severity: Info
Explanation: MSRP error occurred
Recommended Action: No action is required – this message is for information only.

LISTENER_JOIN: Listener Join %s on %s: StreamId 0x%s, state %d
Severity: Info
Explanation: MSRP Listener message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

LISTENER_LV: Listener Lv %s on %s: StreamId 0x%s, state %d
Severity: Info
Explanation: MSRP Listener message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

NOTIF: %s
Severity: Info
Explanation: MSRP notification
Recommended Action: No action is required – this message is for information only.

SR_CLASS_TRANSITION: MSRP %d state on %s changed from %d to %d
Severity: Info
Explanation: MSRP SR Class state transition occurred on an interface
Recommended Action: No action is required – this message is for information only.

TALKER_ADV_JOIN: TalkerAdv Join %s on %s: StreamId 0x%s, failureCode %d
Severity: Info
Explanation: MSRP Talker Advertise message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

TALKER_ADV_LV: TalkerAdv Lv %s on %s: StreamId 0x%s
Severity: Info
Explanation: MSRP Talker Advertise message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

TALKER_FAIL_JOIN: TalkerFail Join %s on %s: StreamId 0x%s, failureCode %d, failedBridgeId 0x%s
Severity: Info
Explanation: MSRP Talker Fail message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

TALKER_FAIL_LV: TalkerFail Lv %s on %s: StreamId 0x%s, failureCode %d
Severity: Info
Explanation: MSRP Talker Fail message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

2.52 MVRP Messages

ERROR: %s
Severity: Info
Explanation: MVRP error occurred
Recommended Action: Please check if the interface is a trunk port and vlan is configured in the trunk allowed VLAN list.

NOTIF: %s
Severity: Info
Explanation: MVRP notification
Recommended Action: No action is required – this message is for information only.

VLAN_JOIN: VLAN Join for %d %s on %s
Severity: Info
Explanation: MVRP Vlan Join message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

VLAN_LV: VLAN Leave for %d %s on %s
Severity: Info
Explanation: MVRP Vlan Leave message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

VLAN_NEW: VLAN New for %d %s on %s
Severity: Info
Explanation: MVRP Vlan New message was transmitted/received on an interface
Recommended Action: No action is required – this message is for information only.

2.53 NAT Messages

ACL_FILTER_INVALID_ACTION: NAT ACL %s configured on interface %s has invalid action (%s)
Severity: Error
Explanation: The switch is unable to program this NAT rule.
Recommended Action: Reconfigure your ACL to use permit action.

ACL_FILTER_INVALID_DESTINATION_ADDRESS: NAT ACL %s configured on interface %s has invalid destination address match (%s)
Severity: Error
Explanation: The switch is unable to program this NAT rule.
Recommended Action: Reconfigure your ACL to remove the destination address match.

ACL_FILTER_INVALID_PROTOCOL: NAT ACL %s configured on interface %s has protocol match
Severity: Error
Explanation: The switch is unable to program this NAT rule.
Recommended Action: Reconfigure your ACL to remove the protocol match.

ACL_FILTER_INVALID_SOURCE_ADDRESS: NAT ACL %s configured on interface %s has invalid source address match (%s)
Severity: Error
Explanation: The switch is unable to program this NAT rule.
Recommended Action: Reconfigure your ACL to remove the source address match.

CONNLIMIT_DROP_RULES: NAT active number of connections has exceeded the connection limit: %d, installing iptable drop rules
Severity: Info
Explanation: Connection Limit is active and has reached its limit.
Recommended Action: Configure 'ip nat translation max-entries' to a higher value, if required

CONNLIMIT_NO_DROP_RULES: NAT active number of connections has reached below the connection limit low mark: %d, deleting iptable drop rules
Severity: Info
Explanation: Connection Limit is active and active connections have reached low mark.
Recommended Action: Run 'show ip nat translation max-entries' to see number of active connections and limit

HW_RESOURCE_CONFLICT: IP NAT hardware resources are already in use for Vxlan.
Severity: Error
Explanation: The switch encountered resource conflict between IP NAT and Vxlan features. It will not be able to support both Vxlan and IP NAT at the same time.
Recommended Action: To solve this issue, remove both IP NAT and Vxlan on the switch and reconfigure only IP NAT. Please contact your technical support representative if you need additional assistance.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all NAT rules
Severity: Error
Explanation: The switch is unable to program all NAT rules due to insufficient hardware resources.
Recommended Action: Reconfigure your NAT rules to reduce the size and/or complexity of the NAT rules.

OVERLAPPED_POOLRANGE: NAT Pool range (%s, %s) in pool '%s' overlaps with range(%s, %s) in pool: '%s'
Severity: Error
Explanation: The behavior with overlapping pool range is undefined
Recommended Action: Reconfigure pool with a different pool range

2.54 OPENFLOW Messages

BIND_MODE_CHANGE: OpenFlow Bind Mode changed from %s to %s
Severity: Info
Explanation: OpenFlow Bind Mode has been changed
Recommended Action: No action is required – this message is for information only.

CONTROLLER_AUX_CONNECT: Controller %s role %s auxiliary channel connected.
Severity: Info
Explanation: Controller Auxiliary connection is active
Recommended Action: No action is required – this message is for information only.

CONTROLLER_AUX_DISCONNECT: Controller %s role %s auxiliary channel disconnected.
Severity: Info
Explanation: Controller Auxiliary connection is inactive
Recommended Action: No action is required – this message is for information only.

CONTROLLER_CONNECT: Controller %s role %s connected.
Severity: Info
Explanation: Controller main connection is active
Recommended Action: No action is required – this message is for information only.

CONTROLLER_DISCONNECT: Controller %s role %s disconnected.
Severity: Info
Explanation: Controller main connection is inactive
Recommended Action: No action is required – this message is for information only.

FORWARDING_PIPELINE_CHANGE: OpenFlow Forwarding Pipeline changed from %s to %s
Severity: Info
Explanation: OpenFlow Forwarding Pipeline has been changed
Recommended Action: No action is required – this message is for information only.

TABLE_PROFILE_CHANGE: OpenFlow Table Profile changed from %s to %s
Severity: Info
Explanation: OpenFlow Table Profile has been changed
Recommended Action: No action is required – this message is for information only.

2.55 OSPF Messages

ADJACENCY_ESTABLISHED: NGB %a, interface %a adjacency established.
Severity: Warning
Explanation: The switch has finished the OSPF handshaking process with a neighboring switch and now sees it as adjacent.
Recommended Action: No action is required – this message is for information only.

ADJACENCY_TEARDOWN: NGB %a, interface %a adjacency dropped: %s, state was: %s.
Severity: Warning
Explanation: The switch has removed a neighbor's adjacent status for the given reason. There are many possible causes, including invalid data received from a neighbor, a change in which neighbors are eligible for adjacency, or OSPF being explicitly disabled on the switch or its neighbors.
Recommended Action: Depending on the reason and other network conditions, this may or may not require action.

MAXLSALIMIT: The max-lsa limit of %d has been reached for OSPF instance %d, shutting down for %d minutes (%d of %d)
Severity: Error
Explanation: The number of LSAs in the OSPF routing system has reached the configured limit, and the instance has been shut down. It will be re-enabled after the configured time, in the hopes that the LSA flood is over.
Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSALIMIT_WARNING: The max-lsa limit of %d has been reached for OSPF instance %d,
Severity: Error
Explanation: The number of LSAs in the OSPF routing system has reached the configured limit.
Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSARECOVER: OSPF instance %d has been re-enabled after it was shut down due to reaching the max-lsa limit
Severity: Error
Explanation: The instance is being re-enabled after the max-lsa ignore time.
Recommended Action: No action is required. The system is once again operating normally.

MAXLSASHUTDOWN: The max-lsa limit of %d has been reached for OSPF instance %d %d times, shutting down until reconfigured
Severity: Error
Explanation: The number of LSAs in the OSPF routing system has reached the configured limit too many times. OSPF has been shut down until it is manually shut down and re-enabled.
Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSAWARNING: Current LSA count %d is approaching configured limit %d in OSPF instance %d
Severity: Warning
Explanation: The number of LSAs in the OSPF routing system is approaching the configured limit. If it reaches the limit, the OSPF instance will shut down. Identify the system that is advertising excessive LSAs.
Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

STATE_CHANGE: NGB %a change from ¡%s¿ to ¡%s¿
Severity: Warning
Explanation: A neighbor's OSPF state has changed.
Recommended Action: Usually, no action is required. This information can be useful for troubleshooting OSPF if the switch is not properly maintaining adjacency with one or more neighbors.

2.56 OSPF3 Messages

ADJACENCY_ESTABLISHED: Neighbor %a, interface %a adjacency established.
Severity: Warning
Explanation: The switch has finished the OSPFv3 handshaking process with a neighboring switch and now sees it as adjacent
Recommended Action: No action is required – this message is for information only.

ADJACENCY_TEARDOWN: Neighbor %a, interface %a adjacency dropped.
Severity: Warning
Explanation: The switch has removed a neighbor's adjacent status. There are many possible causes, including invalid data received from a neighbor, a change in which neighbors are eligible for adjacency, or OSPFv3 being explicitly disabled on the switch or its neighbors.
Recommended Action: Depending on the reason and other network conditions, this may or may not require action

STATE_CHANGE: Neighbor state change for ¡%a¿ on ¡%s¿: ¡%s¿ to ¡%s¿
Severity: Warning
Explanation: A neighbor's OSPF3 state has changed.
Recommended Action: Usually, no action is required. This information can be useful for troubleshooting OSPF if the switch is not properly maintaining adjacency with one or more neighbors.

2.57 PFC Messages

TIMEOUT_EXPIRED: The priority flow control pause timeout expired after %d seconds for %s queue %s of interface %s: error disabling the port
Severity: Error
Explanation: The queue identified in the log message was continuously paused for longer than the watchdog timeout configured for the interface
Recommended Action: No action is required – this message is for information only.

2.58 PIM Messages

BFD_STATE_CHANGE: neighbor %s %s to %s on interface %s
Severity: Notice
Explanation: The BFD state changed on the PIM neighbor.
Recommended Action: No action is required – this message is for information only.

BOUNDARY_ACL_DISCONTIG_MASK: Pim Boundary ACL %s uses unsupported discontiguous mask (%s)
Severity: Warning
Explanation: The switch is unable to enforce this boundary rule. It will be ignored.
Recommended Action: Reconfigure the ACL to use contiguous masks.

BOUNDARY_ACL_INVALID_MCAST_ADDR: Pim Boundary ACL %s uses non multicast address (%s)
Severity: Warning
Explanation: The switch is unable to enforce this boundary rule. It will be ignored.
Recommended Action: Reconfigure the ACL to use multicast addresses.

MESSAGE_INVALID_DESTINATION: Invalid PIM destination %s for PIM type %d received from source %s.
Severity: Error
Explanation: The IP destination sent by the peer PIM router is not correct.
Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_INVALID_TYPE: Invalid PIM type %d received from source %s.
Severity: Error
Explanation: The PIM type is not recognized.
Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_INVALID_VERSION: Invalid PIM version %d received from source %s.
Severity: Error
Explanation: The version sent by the peer PIM router is not supported.
Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_UNPROCESSQ_FULL: PIM unprocessed message queue is full for neighbor %s, message type %d.
Severity: Notice
Explanation: Delayed protocol convergence is expected.
Recommended Action: No action is required – this message is for information only.

MODE_MISMATCH: Neighbor %s is running %s, while interface %s is running %s.
Severity: Error
Explanation: The PIM neighbor state cannot be formed due to mismatch in mode.
Recommended Action: No action is required – this message is for information only.

NBRCHG: neighbor %s %s on interface %s
Severity: Notice
Explanation: The PIM neighbor state changed on the interface.
Recommended Action: No action is required – this message is for information only.

NEIGHBOR_SECONDARY_ADDRESS_CONFLICT: Neighbor %s advertised secondary address %s on interface %s, which was previously advertised by neighbor %s
Severity: Notice
Explanation: There is a conflict and the same secondary address was previously advertised by another neighbor. The most recently received mapping is maintained.
Recommended Action: No action is required – this message is for information only.

2.59 PIMBSR Messages

CRPADV_ZONE_SET: Received Candidate-RP Advertisements from C-RP %s with Zone bit set
Severity: Info
Explanation: This is an unusual condition for which RFC 5059 mentions BSR mechanism to log such activities. This log is only for informational purpose and is produced when a multicast boundary router is configured as a Candidate RP. This does not pose any operational issue.
Recommended Action: In order to not see this message remove Candidate-RP configuration from the multicast boundary router.

MESSAGE_CRP_ZONE: C-RP advertisement received from %s with Zone bit set.
Severity: Notice
Explanation: Indicated C-RP is a ZBR. This message is logged in compliance to RFC 5059.
Recommended Action: If C-RP is not a ZBR contact support. This message is safe to ignore otherwise.

2.60 PORTSECURITY Messages

PSECURE_VIOLATION: Security violation occurred, caused by MAC address %s on vlan %d interface %s.
Severity: Critical
Explanation: The switch detected a violation of the MAC address table restrictions configured through the port-security facility.
Recommended Action: Review your network configuration and monitor the affected interface for unexpected MAC addresses.

PSECURE_VIOLATION_CLEARED: Security violation previously reported on interface %s has cleared.
Severity: Notice
Explanation: The switch detected that a prior violation of the MAC address table restrictions configured through the port-security facility has been lifted, as the interface is now in compliance with port-security requirements.
Recommended Action: No action is required – this message is for information only.

2.61 PREFIX Messages

MROUTE_HW_RESOURCE_FULL: Hardware resources are insufficient to program all multicast prefix routes.
Severity: Error
Explanation: To solve this issue, reconfigure the network to reduce the size of the multicast prefix routes. When the prefix routes reduces, the switch automatically programs any unprogrammed multicast prefix routes in hardware.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.62 PROCMGR Messages

CFGOPTION_UNKNOWN: Fatal error: unknown ProcMgr config option in '%s': (%s=%s)
Severity: Emergency
Explanation: The specified config file contains an unknown config option. The unknown option is listed.
Recommended Action: Confirm that the packages containing ProcMgr is correctly installed. Plan to not be able to use this system until the problem is fixed.

CONFIG_NOTFOUND: Fatal error: cfg file '%s' not found!
Severity: Emergency
Explanation: The system is unusable, because the ProcMgr configuration file does not exist.
Recommended Action: This is a serious error. Confirm that the package containing ProcMgr is correctly installed. Plan not to be able to use this system until the problem is fixed.

CONFIG_UNPARSEABLE: Fatal error: parse error while parsing cfg file '%s': %s.
Severity: Emergency
Explanation: The system is unusable, because the ProcMgr config file could not be parsed. Was it corrupted or overwritten?
Recommended Action: Confirm that the package containing ProcMgr is correctly installed. Plan to not be able to use this system until the problem is fixed.

CONFIG_UNREADABLE: Fatal error: cfg file '%s' is not readable!
Severity: Emergency
Explanation: The system is unusable, because the ProcMgr configuration file exists, but can not be read.
Recommended Action: This is a serious error. Confirm that the package containing ProcMgr is correctly installed. Plan not to be able to use this system until the problem is fixed.

EXECFAILED: Error: '%s' is no longer running (exec() returned unexpectedly!)
Severity: Emergency
Explanation: The specified process failed to start.
Recommended Action: Plan not to be able to use this system until the problem has been fixed.

FINALSHUTDOWN: Final shutdown – ProcMgr %d and all related processes stopped!
Severity: Info
Explanation: This is the last message from ProcMgr before final shutdown.
Recommended Action: No action is required – this message is for information only.

FORKFAILED: Fatal error: unable to start '%s': %s
Severity: Emergency
Explanation: The specified process could not be started. The reason for the failure is specified in the message.
Recommended Action: Plan not to be able to use this system until the problem has been fixed.

HEARTBEATFILEMISSING: Heartbeat file of '%s' (PID=%d) is missing
Severity: Info
Explanation: The heatbeat file of the specified process is missingProcMgr will stop the process, and will restart it, if applicable.
Recommended Action: Keep an eye on the message.

MASTER_RUNNING: Master ProcMgr (PID=%d) monitoring ProcMgr worker (PID=%d)
Severity: Info
Explanation: The master ProcMgr is monitoring the ProcMgr worker process.
Recommended Action: No action is required – this message is for information only.

MASTER_STARTED: Master ProcMgr process started. (PID=%d)
Severity: Info
Explanation: The ProcMgr master process has started running.
Recommended Action: No action is required – this message is for information only.

NEW_PROCESSES: New processes configured to run under ProcMgr control: %s
Severity: Debug
Explanation: The specified processes have been added to the set of processes that run under ProcMgr control. This message is informational only.
Recommended Action: No action is required – this message is for information only.

PROCCFG_BADVALUE: Error: bad config value for process '%s': %s=%s.
Severity: Error
Explanation: The config file for the process specified a valid config option, but set that option to an invalid value. The process will not be started.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PROCCFG_INCOMPLETE: Error! Process incompletely configured: exe='%s', argv='%s', heartbeatPeriod='%s'.
Severity: Error
Explanation: One or more of the required process config parameters was not set.
Recommended Action: Confirm that the package containing the config file is installed correctly, and is up to date.

PROCCFG_OPTION_UNKNOWN: Error: config for '%s' has unknown option (%s=%s)
Severity: Error
Explanation: The specified config file contains an unknown config option. The unknown option is listed.
Recommended Action: Confirm that the package containing the file is correctly installed. Plan not to be able to use this system until the problem is fixed.

PROCCFG_UNPARSEABLE: Config file '%s' can not be parsed. The process configured in it will not be started.
Severity: Info
Explanation: The process config file is not parseable. This condition should be transient. If it persists, the system might be unstable.
Recommended Action: A process config file was found to be unparseable. This can occur while the system is being reconfigured (e.g., packages are installed/removed/updated), but should be transient. If the message persists, the system might be unstable, or some features might not work. Find out why the process config file is expected, but not there.

PROCESSES_ADOPTED: ProcMgr (PID=%d) adopted running processes: %s
Severity: Debug
Explanation: During a warm restart, ProcMgr took over management of the listed process(es) already running.
Recommended Action: No action required – this message is informational only.

PROCESSES_DECONFIGURED: Processes no longer running under ProcMgr control: %s
Severity: Debug
Explanation: The specified processes have been removed from the set of processes that run under ProcMgr control. This message is informational only.
Recommended Action: No action is required – this message is for information only.

PROCESS_CONFIG_DUPLICATE: Duplicate config for '%s' detected. Using the config with ctime %d.
Severity: Warning
Explanation: More than one config file contains configuration for the specified agent. This can happen when the system is being reconfigured (e.g., software is being installed/upgraded/uninstalled), but should not persist for longer than a few minutes.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PROCESS_DELAYRESTART: '%s' (PID=%d) restarted too often! Delaying restart for %s (HH:MM:SS) (until %s)
Severity: Error
Explanation: The specified process has required restart too often. In order to protect the system, restart of the process is being delayed until the specified time.
Recommended Action: Figure out why the process needs to be restarted so often, and fix the problem.

PROCESS_NOTRESTARTING: Letting '%s' (PID=%d) exit - NOT restarting it.
Severity: Info
Explanation: The specified process has stopped, and ProcMgr will not restart it. This could be due to the process being deconfigured, for example.
Recommended Action: No action is required – this message is for information only.

PROCESS_NOTSTARTING: Error: '%s' can not be started, because its config is bad.
Severity: Error
Explanation: The specified process will not be started because its configuration is bad.
Recommended Action: Confirm that the package containing the config file is correctly installed. Plan not to be able to use this system until the problem is fixed.

PROCESS_RESTART: Restarting '%s' immediately (it had PID=%d)
Severity: Info
Explanation: The specified process is being restarted immediately.
Recommended Action: Keep an eye on the process – if it restarts frequently, figure out why.

PROCESS_STARTED: '%s' starting with PID=%d (PPID=%d) – execing '%s'
Severity: Info
Explanation: The specified process is about to be started with the specified process ID. PPID refers to the parent process's PID.
Recommended Action: No action is required – this message is for information only.

PROCESS_TERMINATED: '%s' (PID=%d) has terminated.
Severity: Info
Explanation: The specified process has stopped running. This may or may not be intentional.
Recommended Action: No action is required – this message is for information only.

PROGRAM_NOTEXECUTABLE: Error! Program for '%s' (%s) not executable, but configured to run.
Severity: Error
Explanation: A major feature might not work, because the program that implements at least part of the feature can not be executed.
Recommended Action: This is a serious error. Confirm that the package containing the program is correctly installed. Plan not to be able to use the system until the problem is fixed.

PROGRAM_NOTFOUND: Error! Program for '%s' (%s) not found, but configured to run.
Severity: Error
Explanation: A major feature might not work, because the program that implements at least part of the feature can not be found.
Recommended Action: This is a serious error. Confirm that the package containing the program is correctly installed. Plan not to be able to use the system until the problem is fixed.

SHORTSLEEP: Waking up after sleeping only %s (of at least %s requested)
Severity: Debug
Explanation: ProcMgr was unable to delay the next review of the system for the minimum requested.
Recommended Action: Keep an eye on the message. If it appears frequently, figure out why ProcMgr can't sleep as long as requested. (Is it being interrupted by signals?)

SHUTDOWNREQUESTED: ProcMgr shutdown requested via SIGQUIT or SIGTERM to worker (PID=%d) – Master ProcMgr (PID=%d) exiting.
Severity: Error
Explanation: A requested shutdown of ProcMgr and all managed processes is being executed.
Recommended Action: No action is required – this message is for information only.

SHUTDOWN_SIGKILLALL: ProcMgr shutting down – terminating all managed procs: %s
Severity: Info
Explanation: ProcMgr is shutting down: all processes under its management will be terminated with a SIGKILL. The message lists the affected process IDs.
Recommended Action: No action is required – this message is for information only.

SHUTDOWN_SIGKILLPROC: ProcMgr shutting down – stopping '%s' (PID=%d) with SIGKILL
Severity: Info
Explanation: ProcMgr will deliver SIGKILL to the listed processes to allow it to shutdown gracefully.
Recommended Action: No action is required – this message is for information only.

TERMINATE_PROCESS_SIGKILL: Heartbeats from '%s' (PID=%d) missing for %s secs – terminating it with SIGKILL
Severity: Info
Explanation: ProcMgr is terminating the specified process because it is not behaving as expected, has been reconfigured, or has been configured to stop.
Recommended Action: This message is expected when the system is being reconfigured. If this message appears frequently when the system is not being reconfigured, there may be something wrong with the process.

TERMINATE_PROCESS_SIGQUIT: Heartbeats from '%s' (PID=%d) missing for %s secs – terminating it with SIGQUIT. Process kernel stack is (%s). Syscall is (%s).
Severity: Warning
Explanation: ProcMgr is terminating the specified process because it has detected that the process is not behaving as expected (heartbeats from the process are unexpectedly missing).
Recommended Action: Keep an eye on the process – if this happens frequently, there may be something wrong with the process.

TERMINATE_RUNNING_PROCESS: Terminating deconfigured/reconfigured process '%s' (PID=%d)
Severity: Info
Explanation: A running process has been configured to stop, or its configuration has changed. ProcMgr will stop the process, and will restart it with a new configuration, if applicable.
Recommended Action: This message is informational only – no action is required

UNEXPECTEDCFGFILESGONE: %d files disappeared from %s, but no SIGHUP to ProcMgr. Gone are: %s
Severity: Warning
Explanation: ProcMgr has discovered that some process config files have disappeared without ProcMgr being informed. Running processes will not be stopped by ProcMgr, which is probably not the intention.
Recommended Action: Figure out why the files disappeared, and why ProcMgr was not told to rescan the directory (by sending ProcMgr a SIGHUP).

UNEXPECTEDNEWCFGFILES: %d new config files in %s, but no SIGHUP to ProcMgr. New are: %s
Severity: Warning
Explanation: ProcMgr has discovered process config files that it was not told about. The processes will not be started by ProcMgr, which is probably not the intention.
Recommended Action: Figure out where the files came from, and why ProcMgr was not told to rescan the directory (by sending ProcMgr a SIGHUP).

WORKER_COLDSTART: New ProcMgr worker cold start. (PID=%d) (Master ProcMgr PID=%d)
Severity: Info
Explanation: The ProcMgr worker thread is ready to begin its work.
Recommended Action: No action is required – this message is for information only.

WORKER_RESTART: ProcMgr worker (PID=%d) terminated unexpectedly – starting new worker
Severity: Error
Explanation: The ProcMgr worker process terminated unexpectedly, and is being restarted immediately.
Recommended Action: Keep an eye on this message – if it happens frequently, something is wrong with the system.

WORKER_WARMSTART: ProcMgr worker warm start. (PID=%d)
Severity: Info
Explanation: ProcMgr is doing a warm start (re-reading all config files, starting/stopping/adopting procs as needed).
Recommended Action: No action is required – this message is for information only.

WORKER_WARMSTART_DONE: ProcMgr worker warm start done. (PID=%d)
Severity: Debug
Explanation: ProcMgr has finished its warm start.
Recommended Action: No action is required – this message is for information only.

2.63 PTP Messages

GRANDMASTER_CHANGE: Old Grandmaster %s New Grandmaster %s
Severity: Warning
Explanation: A change in the grandmaster clock in the PTP domain.
Recommended Action: No action required.

HARDWARE_SYNC_MASTER_CLOCK_ERROR: Possible hardware error with the PTP HardwareSync master clock.
Severity: Error
Explanation: The master clock provider is producing a frequency other than expected.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HARDWARE_SYNC_SLAVE_CRC_ERROR: PTP TimeSync CRC error detected on switch chip %s.
Severity: Error
Explanation: The aforementioned switch chip received a TimeSync message with a CRC error.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HARDWARE_SYNC_SLAVE_HW_ERROR: Possible TimeSync counter frequency error for switch chip %s.
Severity: Error
Explanation: The switch chips interal TimeSync counter is counting at a frequency that is past the acceptable tolerance.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HARDWARE_SYNC_SLAVE_TOO_LONG_TO_SYNC: Switch chip %s is taking too long to synchronize with TimeSync master.
Severity: Error
Explanation: The aforementioned switch chip has not synchronized with the TimeSync master for a long time.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

NOT_SUPPORTED_VERSION: PTP V1 packet has been received on interface %s
Severity: Warning
Explanation: An unsupported 1588 PTP V1 packet has been received on interface %s.
Recommended Action: You can configure 'ptp forward-v1' cli command for incoming PTP V1 packets to pass through the switch as normal multicast traffic

PEER_DOWN: Interface %s is no longer AS Capable
Severity: Warning
Explanation: A gPTP capable peer is no longer present on this link.
Recommended Action: No action required.

PEER_UP: Interface %s is AS Capable.
Severity: Info
Explanation: A gPTP capable peer was detected on this link.
Recommended Action: No action required.

2.64 PWRMGMT Messages

INPUT_POWER_LOSS: %s has lost input power.
Severity: Warning
Explanation: The power supply has lost input power.
Recommended Action: Check the input power source to the power supply and that the power supply is properly plugged in. If the problem persists, contact your support representative. Otherwise, no action is required.

INPUT_POWER_OK: %s has regained input power.
Severity: Warning
Explanation: The power supply had previously lost input power but is now ok.
Recommended Action: No action is required – this message is for information only.

PSU_STATUS_FAILED: %s has failed and has stopped providing power to the system.
Severity: Error
Explanation: The power supply has failed and is no longer providing power to the system.
Recommended Action: Check the output of 'show environment power' and other log messages for details of why the power supply failed. The power supply may need to be replaced. The problem should be fixed as soon as possible to avoid potential downtime in the future.

PSU_STATUS_OK: %s has recovered and is providing power to the system.
Severity: Error
Explanation: The power supply had previously failed but is now ok and is once again providing power to the system.
Recommended Action: Check for other log messages detailing why the power supply originally failed. While the power supply has recovered, the problem should be fixed as soon as possible to avoid potential downtime in the future.

2.65 QOS Messages

COPP_HW_RESOURCE_FULL: Insufficient TCAM resources to program the policy map %s.
Severity: Error
Explanation: The switch is unable to program QoS CoPP configuration due to insufficient TCAM resources.
Recommended Action: Reduce number of ACL rules in policy map classes or reconfigure your ACLs to free some resources for CoPP

COPP_HW_RESOURCE_NORMAL: Policy map %s is programmed in TCAM.
Severity: Error
Explanation: The switch was able to program entire CoPP configuration in the TCAM.
Recommended Action: No action is required – this message is for information only.

ECN_GLOBAL_HW_FULL: Hardware resources insufficient to program global-buffer ECN
Severity: Error
Explanation: The switch is unable to program ECN configuration due to insufficient Hardware resources.
Recommended Action: No action is required – this message is for information only.

ECN_QUEUE_HW_FULL: Hardware resources insufficient to program tx-queue ECN on queue %s for port %s
Severity: Error
Explanation: The switch is unable to program ECN configuration due to insufficient Hardware resources.
Recommended Action: No action is required – this message is for information only.

ECN_TCAM_FULL: TCAM resources are insufficient to program TCAM to avoid nonECT drops
Severity: Error
Explanation: The switch is unable to avoid ECN drops for non ECN Capable traffic due to insufficient TCAM resources.
Recommended Action: Reconfigure other features that use TCAMs to free up some resources.

HW_RESOURCE_FULL: TCAM resources are insufficient to program %s for port %s
Severity: Error
Explanation: The switch is unable to program QoS configuration due to insufficient TCAM resources.
Recommended Action: Reconfigure other features that use TCAMs to free up some resources for QoS.

HW_RESOURCE_NORMAL: %s is programmed in TCAM for all ports
Severity: Error
Explanation: The switch was able to program entire QoS configuration in the TCAM.
Recommended Action: No action is required – this message is for information only.

POLICY_COUNTERS_AVAILABLE: A Policer bank is now available to enable counters for policy map based Qos.
Severity: Error
Explanation: New policies applied will have counters enabled. Reapply exisiting policies to enable counters on them.
Recommended Action: No action is required – this message is for information only.

POLICY_COUNTERS_UNAVAILABLE: No Policer bank was available to enable counters for policy map based Qos.
Severity: Error
Explanation: All policies will be programmed but counters will not be available.
Recommended Action: Disable features that are using policer banks and re-apply service-policies.

POLICY_HW_RESOURCE_FULL: Insufficient hardware resources to program the %s policy-map %s.
Severity: Error
Explanation: The switch is unable to program QoS policy-map configuration due to insufficient hardware resources.
Recommended Action: Reduce number of ACL rules in policy-map classes or reconfigure your ACLs to free some resources for policy-mapIf there is a policer in one of the classes, detaching policy-map from one of the interfaces also frees up resourcs

POLICY_HW_RESOURCE_NORMAL: Programmed %s policy-map %s in hardware.
Severity: Error
Explanation: The switch was able to program entire policy-map configuration in the hardware.
Recommended Action: No action is required – this message is for information only.

POLICY_MULTIPLE_ACTIONS: Multiple actions are attached to the class-map %s in the policy-map %s.
Severity: Error
Explanation: In case of conflicting actions only a single action is applied. Dscp rewrite is programmed over any other action, cos rewrite is programmed over traffic-class selection.
Recommended Action: Reconfigure policy-map and specify only one action per class.

POLICY_POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the class-map %s in the policy-map %s on %s %s.
Severity: Error
Explanation: Remove some features using policer banks and reapply the policy-map to the interface to enable police action.
Recommended Action: No action is required – this message is for information only.

SCH_SHP_UNIT_MISMATCH: Shape rate is in %s and Bandwidth guaranteed is in %s causing unit mismatch for queue %s on port %s. Not programming %s
Severity: Error
Explanation: Both Shape rate and Bandwidth guaranteed have to be in same units to be programmed properly in hardware.
Recommended Action: Reconfigure shaperate units or bandwidth guaranteed units

2.66 QUARTZY Messages

INIT_FAILED: Possible hardware error with the Quartzy chip.
Severity: Error
Explanation: Initialization of the Quartzy chip has failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.67 QUEUEMONITOR Messages

AGENT_RESTART: Queue monitor on %s has experienced an irrecoverable error, restarting queue monitoring agent to recover.
Severity: Warning
Explanation: Queue monitoring agent will restart immediately. Possible loss of congestion records may occur during the restart.
Recommended Action: No action is required – this message is for information only.

COPROCESSOR_ERROR: Queue monitor on %s has experienced an error, some congestion events may be lost
Severity: Warning
Explanation: Queue monitoring has stalled briefly. Possible loss of congestion records may occur while it recovers.
Recommended Action: No action is required – this message is for information only.

GLOBAL_BUFFER_USAGE_LOW_THRESHOLD: Global Buffer usage is under low threshold now, Maximum buffer usage is %d segments
Severity: Info
Explanation: Global buffer usage is under threshold.
Recommended Action: No action is required – this message is for information only.

GLOBAL_BUFFER_USAGE_OVER_THRESHOLD: Global Buffer usage is over threshold of %d, current length is %d
Severity: Info
Explanation: Global buffer usage update
Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: %s
Severity: Error
Explanation: The ASIC is unable to program all LANZ configuration due to insufficient hardware resources.
Recommended Action: Reconfigure LANZ to reduce the amount of resources needed.

LENGTH_OVER_THRESHOLD: %s
Severity: Info
Explanation: Interface queue length is over threshold.
Recommended Action: No action is required – this message is for information only.

LENGTH_UNDER_THRESHOLD: Interface %s max queue length was %d, now back under low threshold of %d
Severity: Info
Explanation: Interface queue length is back under low threshold.
Recommended Action: No action is required – this message is for information only.

LENGTH_UPDATE: %s
Severity: Info
Explanation: Interface queue length and queue drop update message.
Recommended Action: No action is required – this message is for information only.

MIRROR_HW_RESOURCE_FULL: Mirroring hardware resources are insufficient to enable LANZ packet sampling. Packet sampling will be made inactive until the mirroring resources are available.
Severity: Error
Explanation: The switch is unable to program mirroring session to sample packets to destination.
Recommended Action: To solve this issue, remove a mirroring session or unconfigure a feature that is using a mirror session.

RECOVERED: Queue monitoring resumed
Severity: Debug
Explanation: Queue monitoring has recovered from a stall.
Recommended Action: No action is required – this message is for information only.

STALLED: Queue monitoring has paused briefly, some congestion events may be lost
Severity: Debug
Explanation: Queue monitoring has stalled briefly. Possible loss of congestion records may occur while it recovers.
Recommended Action: No action is required – this message is for information only.

UNEXPSEQNUM: Congestion message with un-expected sequence number is received%s
Severity: Warning
Explanation: Reinitializing LANZ processor state
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.68 REACHABILITYMONITOR Messages

EGRESS_PROBE_BURST_DETECTED: Reachability Monitor detected this switch has recently transmitted a burst of %d probes in 1 second.
Severity: Info
Explanation: These probes have been rate limited.
Recommended Action: No action is required – this message is for information only.

EGRESS_PROBE_BURST_OK: Reachability Monitor probes are no longer being transmitted in a burst.
Severity: Info
Explanation: Probes are no longer rate limited.
Recommended Action: No action is required – this message is for information only.

EGRESS_PROBE_RATE_EXCEEDED: Reachability Monitor detected this switch is sending probes too quickly. More than %d probes per second are being sent by all streams on all transmitters.
Severity: Warning
Explanation: The total rate for all egress streams is too high on this switch.
Recommended Action: Please reduce the probe rate for some or all of the probe transmitters on this system or reduce the number of egress streams associated with these transmitters.

EGRESS_PROBE_RATE_OK: Reachability Monitor probes are being transmitted at an acceptable rate.
Severity: Warning
Explanation: Probe rate is within the limits allowed.
Recommended Action: No action is required – this message is for information only.

EGRESS_STREAM_TABLE_EXCEEDED: Reachability Monitor detected this switch has exceeded the limit of %d streams recorded in the egress stream table.
Severity: Warning
Explanation: Too many streams have been received by the switch.
Recommended Action: Please reduce the number of streams being sent from this switch.

EGRESS_STREAM_TABLE_OK: Reachability Monitor detected this switch no longer exceeds the configured limit for the number of streams recorded in the egress stream table.
Severity: Warning
Explanation: The number of streams received is appropriate for size of ingess stream table.
Recommended Action: No action is required – this message is for information only.

EXPIRED_INGRESS_STREAM: Reachability Monitor detected an expired probe stream: %s
Severity: Info
Explanation: The switch detected a probe stream that has expired because probes were not received for robustness time intervals.
Recommended Action: No action is required – this message is for information only.

EXPIRED_INGRESS_STREAMS: Reachability Monitor detected %d expired probe stream(s) in the last %d seconds.
Severity: Info
Explanation: The switch detected probe stream(s) that have expired because probes were not received for robustness time intervals.
Recommended Action: No action is required – this message is for information only.

INGRESS_STREAM_TABLE_EXCEEDED: Reachability Monitor detected this switch has exceeded the configured limit of %d streams recorded in the ingress stream table.
Severity: Warning
Explanation: Too many streams have been received by the switch.
Recommended Action: Please increase the size of the ingress stream table or reduce the number of streams being sent to this switch by other beacons in the network.

INGRESS_STREAM_TABLE_OK: Reachability Monitor detected this switch no longer exceeds the configured limit for the number of streams recorded in the ingress stream table.
Severity: Warning
Explanation: The number of streams received is appropriate for size of ingress stream table.
Recommended Action: No action is required – this message is for information only.

NEW_INGRESS_STREAM: Reachability Monitor detected a new probe stream: %s
Severity: Info
Explanation: The switch detected a probe stream from which probes were not previously continually received.
Recommended Action: No action is required – this message is for information only.

NEW_INGRESS_STREAMS: Reachability Monitor detected %d new probe stream(s) in the last %d seconds.
Severity: Info
Explanation: The switch detected new probe stream(s).
Recommended Action: No action is required – this message is for information only.

PROBES_DUPLICATED: Reachability Monitor detected %d probe(s) duplicated for all probe streams over the last %d seconds
Severity: Warning
Explanation: The switch detected duplicated probe(s).
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe duplication.

PROBES_LOST: Reachability Monitor detected %d probe(s) lost for all probe streams over the last %d seconds.
Severity: Warning
Explanation: The switch detected lost probe(s).
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe loss.

PROBES_MISORDERED: Reachability Monitor detected %d probe(s) misordered for all probe streams over the last %d seconds
Severity: Warning
Explanation: The switch detected out-of-order probe(s).
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe misordering.

PROBE_DUPLICATE_ON_STREAM: Reachability Monitor detected probe duplicate (%d probe(s) duplicates so far) on the following stream: %s
Severity: Warning
Explanation: The switch detected duplicate probe(s) on this probe stream.
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe duplication.

PROBE_LOST_ON_STREAM: Reachability Monitor detected probe loss (%d probes lost so far) on the following stream: %s
Severity: Warning
Explanation: The switch detected lost probe(s) on this probe stream.
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe loss.

PROBE_MISORDERED_ON_STREAM: Reachability Monitor detected probe misordering (%d probe(s) misordered so far) on the following stream: %s
Severity: Warning
Explanation: The switch detected out-of-order probe(s) on this probe stream.
Recommended Action: Check network links and probe reception on neighboring devices to determine the cause of probe misordering.

2.69 REDUNDANCY Messages

CONFIG_SYNC: %s synchronized from Supervisor %d (active) to Supervisor %d (standby)
Severity: Info
Explanation: The above configuration was sucessfully synchronized from the active supervisor to the standby supervisor.
Recommended Action: No action is required – this message is for information only.

CONFIG_SYNC_FAILED: Failed to synchronize %s from Supervisor %d (active) to Supervisor %d (standby). Reason: %s
Severity: Warning
Explanation: The active supervisor failed to synchronize the above configuration to the standby supervisor. Active supervisor will keep retrying to synchronize the configuration until successful. The above configuration can be manually copied to the standby supervisor to ensure proper operation on switchover.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONFIG_SYNC_SUCCEEDED: Synchronized %s from Supervisor %d (active) to Supervisor %d (standby)
Severity: Warning
Explanation: After the previous synchronization failure, the active supervisor persistenly retried and was able to synchronize the above configuration to standby supervisor.
Recommended Action: No action is required – this message is for information only.

ISSHD_RESTART_FAILED: isshd service failed to restart on Supervisor %d (standby).
Severity: Notice
Explanation: The internal sshd service that runs on standby supervisor has stopped unexpectedly. The service monitoring agent failed to restart it.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ISSHD_RESTART_SUCCEEDED: isshd service has restarted on Supervisor %d (standby).
Severity: Notice
Explanation: The internal sshd service that runs on standby supervisor has stopped unexpectedly. The service monitoring agent has restarted it.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ISSHD_STOP_FAILED: stopping isshd service failed on Supervisor %d (active).
Severity: Error
Explanation: The internal sshd service should not run on active supervisor. The service monitoring agent failed to stop it.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IS_ACTIVE: Supervisor became active
Severity: Notice
Explanation: This supervisor has become active. Now it will take over the management interface and control the linecards and fabric cards.
Recommended Action: No action is required – this message is for information only.

IS_DISABLED: Supervisor became disabled
Severity: Critical
Explanation: This supervisor has been disabled, which means that it will not become active even if the active supervisor fails. Now the switch is running with one supervisor less.
Recommended Action: If you did not deliberately disable the supervisor, contact your support.

IS_STANDBY: Supervisor became standby
Severity: Notice
Explanation: This supervisor has become standby. Now it is ready to become active, if the active supervisor fails.
Recommended Action: No action is required – this message is for information only.

OTHER_ACTIVE: Other supervisor became active
Severity: Notice
Explanation: The other supervisor has become active. Now it will take over the management interface and control the linecards and fabric cards.
Recommended Action: No action is required – this message is for information only.

OTHER_DISABLED: Other supervisor became disabled
Severity: Critical
Explanation: The other supervisor has been disabled, which means that it will not become active even if the active supervisor fails. Now the switch is running with one supervisor less.
Recommended Action: If you did not deliberately disable the other supervisor, contact your support.

OTHER_STANDBY: Other supervisor became standby
Severity: Notice
Explanation: The other supervisor has become standby. Now it is ready to become active, if the active supervisor fails.
Recommended Action: No action is required – this message is for information only.

PROTOCOL_CHANGE: Operational redundancy protocol changed to %s
Severity: Notice
Explanation: The operational redundancy protocol changed to %s due to conditions on the standby supervisor.
Recommended Action: No action is required – this message is for information only.

RESTARTING_SOFTWARE: Restarting software on Supervisor %d (standby)
Severity: Notice
Explanation: Software on the standby supervisor is being restarted. The is necessary when a new startup-config is received from the active supervisor while in Route Processor Redundancy Mode. The standby supervisor may temporarily stop participating in the election protocol.
Recommended Action: No action is required – this message is for information only.

SWITCHOVER_COMPLETE: Stateful switchover is complete
Severity: Notice
Explanation: This supervisor has completed stateful switchover.
Recommended Action: No action is required – this message is for information only.

SWITCHOVER_START: Stateful switchover started
Severity: Notice
Explanation: This supervisor has initiated stateful switchover.
Recommended Action: No action is required – this message is for information only.

SYNC_SLOW: During SSO switchover, %s took longer than expected to sync its hardware shadow.
Severity: Info
Explanation: During SSO switchover cards have an expected timeframe to sync their hardware shadow. This card took longer than expected to sync its shadow.
Recommended Action: No action is required – this message is for information only.

TIME_SYNC: Monotonic Time Synchronization failed
Severity: Notice
Explanation: Monotonic Time synchronization failed. This could be either due to the standby supervisor not being able to communicate with the active supervisor or due to the standby supervisor's monotonic time being ahead in time by more than a second. The sync operation will continue to be retried.
Recommended Action: No action is required – this message is for information only.

2.70 RIB Messages

IGP_CONVERGED: IGP protocols in VRF %s have converged and their routes are in FIB
Severity: Notice
Explanation: IGP protocols(say OSPF) have converged and routes are now available in FIB. Besides IGP protocols, Rib agent is also done with initial processing of all connected and static routes
Recommended Action: No action is required – this message is for information only.

MAX_PATHS_EXCEEDED: Route %s has too many paths, using only %d
Severity: Error
Explanation: The RIB agent has attempted to allocate an ECMP route with more paths than the maximum supported by the hardware. The extra paths have been discarded from the route.
Recommended Action: No action is required – this message is for information only.

ROUTE_READY: Routes in VRF %s are ready and available in FIB
Severity: Notice
Explanation: With routes now being ready in FIB, forwarding agent will start syncing them down to hardware without fear of purging any routes had router undergone graceful restart(say Rib restart/hitless system upgrade)
Recommended Action: No action is required – this message is for information only.

ROUTE_READY_TIMEOUT: Route types in VRF %s that are not converged: %s.
Severity: Notice
Explanation: Rib agent timed out waiting for one or more routing protocols to converge.During hitless reload or stateful switchover this may lead to routes being deleted from hardware temporarily until the routing protocols converge.
Recommended Action: No action is required – this message is for information only.

2.71 ROUTING Messages

ADJ_SHARING_MODE_CHANGE: Operating adj sharing mode for agent changed to %d
Severity: Info
Explanation: Adj sharing operating mode changed. Restarting agent
Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_MAX_PATHS_EXCEEDED: ECMP route %a has exceeded number of allowed paths.
Severity: Info
Explanation: An ecmp route has more paths than allowed by the Resilient Ecmp Feature. The extra paths will not be programmed in hardware.
Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_PATH_NOT_PROGRAMMED: Path %a not programmed for ECMP route %a
Severity: Info
Explanation: Path exceeds number of allowed paths in a resilient ecmp route. Path will not be programmed in hardware.
Recommended Action: No action is required – this message is for information only.

EGRESS_RACL_SHARING_OVERRIDE_URPF: Unicast RPF does not work and is disabled since egress router ACLs are configured
Severity: Warning
Explanation: Unicast RPF does not work when egress router ACL sharing is enabled. Remove all egress router ACLs for unicast RPF to be enabled again
Recommended Action: No action is required – this message is for information only.

HW_MAX_PATHS_EXCEEDED: Adjacency %s has too many paths, using only %d
Severity: Error
Explanation: The switch is unable to program all paths of the route because the number of paths exceeds the maximum supported by the hardware. The extra paths have been discarded from the route.
Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all routes
Severity: Error
Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the routing table exceeds the available hardware resources.
Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table. When the routing table size reduces, the switch automatically programs any unprogrammed routes in hardware.

HW_RESOURCE_NORMAL: All routes are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the routes in the routing table, in hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

IPTUNNEL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all IP tunnels
Severity: Error
Explanation: The switch is unable to program all tunnels due to insufficient hardware resources. When the switch is unable to program tunnels due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the number of tunnel destinations peering with this switch exceeds the size of the hardware tunnel table.
Recommended Action: To solve this issue, reconfigure the network to reduce the number of tunnel destination peering. When the tunnel table size reduces, the switch automatically programs any unprogrammed tunnels in hardware tunnel table.

IPTUNNEL_HW_RESOURCE_NORMAL: All IP tunnels are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the tunnels in the tunnel table, in hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

MAX_PATHS_EXCEEDED: Number of paths (%d) for adj %d higher than max supported value (%d)
Severity: Error
Explanation: The system is trying to allocate an ecmp route with more paths than the maximum allowed by the hardware. The route will be programmed to to use only the maximum allowed.
Recommended Action: No action is required – this message is for information only.

MCAST_REPLICATION_MISMATCH: Incorrect multicast replication entry detected in hardware
Severity: Error
Explanation: The software has detected a multicast replication entry incorrectly programmed in hardware. The entry has been automatically corrected.
Recommended Action: No action is required – this message is for information only.

MPLS_RESOURCE_FULL: Hardware resources are insufficient to program all MPLS routes
Severity: Error
Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets.
Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table or the number of MPLS routes. When the hardware resources is available, the switch automatically programs any unprogrammed routes in hardware.

MPLS_RESOURCE_NORMAL: All MPLS routes are programmed in hardware.
Severity: Error
Explanation: The switch was able to program all the MPLS routes in the hardware and normal hardware routing has resumed.
Recommended Action: No action is required – this message is for information only.

NO_EGRESS_RACL_SHARING_OVERRIDE_URPF: Unicast RPF is re-enabled since no egress router ACLs are configured.
Severity: Warning
Explanation: Unicast RPF configuration is active again since no egress router ACLs are configured
Recommended Action: No action is required – this message is for information only.

NO_ROUTE_OPTIMIZATION_OVERRIDE_URPF: Unicast RPF is re-enabled since optimized IP route programming is not in effect
Severity: Warning
Explanation: Unicast RPF configuration is active again since optimized IP route programming is not in effect.
Recommended Action: No action is required – this message is for information only.

PERSISTENT_CONFIG_MOVED: /persist/sys/ribd.ami is obsolete, please use /mnt/flash/rib-startup
Severity: Error
Explanation: Persistent rib configuration in binary format in /persist/sys/ribd.ami is not recommended. Put a plain-text list of commands in /mnt/flash/rib-startup instead.
Recommended Action: Archive the configuration using "show tech-support ribd running-config ¿ flash:old-ribd-config.txt", delete the old /persist/sys/ribd.ami, and move any configuration that EOS does not support natively to /mnt/flash/rib-startup.

ROUTE_OPTIMIZATION_OVERRIDE_URPF: Unicast RPF does not work and is disabled since optimized IP route programming option is configured
Severity: Warning
Explanation: Unicast RPF does not work when optimized IP route programming is configured.Unconfigure the option for unicast RPF to be enabled again
Recommended Action: No action is required – this message is for information only.

2.72 SAND Messages

AGENT_EXITING: Agent for %s is exiting and will restart.
Severity: Warning
Explanation: Sand agent is exiting and will restart.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_INIT_FAILED: Initialization of %s failed because of a software error.
Severity: Error
Explanation: In some rare cases, a linecard or fabric card cannot be initialized after a switchover because of a software condition.
Recommended Action: Turn off and then turn on the power for the card that has failed to initialize.

COUNTER_DMA_ERROR: Counter DMA error (%d) on channel %d occurred for %s
Severity: Error
Explanation: An error has happened while reading queue counters. This may result in lost queue counter updates.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_BIST_FAILED: Switch ASIC %d, dram %d failed dram bist
Severity: Error
Explanation: The Arad switch ASIC failed dram bist test. Please contact support.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_NO_INFO: Switch ASIC %d, DDR memory bank settings not available.
Severity: Error
Explanation: The switch ASIC %d cannot be initialized without information about DDR memory banks.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_NO_LOCK: Switch ASIC %d, DDR memory bank %d was re-initialized.
Severity: Info
Explanation: When a switch ASIC does not recognize a DDR memory bank during initialization the switch ASIC is re-initialized. No impact to functionality.
Recommended Action: No action is required – this message is for information only.

DMA_DEVICE_STATE_ERROR: %s expected state: %s, actual state: %s
Severity: Error
Explanation: Device up/down state changed unexpectedly. Forwarding agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

DRAM_INIT_FAILURE: DRAM %d of %s failed initialization. It did not read back what was written to it.
Severity: Error
Explanation: After initializing a Petra's DRAMs, software verifies that it can write and read back from them. If the value read back is not what was written to the DRAM, software exits and retries the initialization. This is normally a transient condition, and the next initialization succeeds.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EGRESS_CONSISTENT: Egress buffer counters on %s have returned to normal, and the egress queues are operating normally.
Severity: Error
Explanation: Egress counters have returned to normal. The chip is operating normally.
Recommended Action: No action is required – this message is for information only.

EGRESS_INCONSISTENT: Egress buffer counters on %s are inconsistent with the number of available buffers and/or descriptors. The egress queues may be stuck, causing traffic sent to this device to be dropped.
Severity: Error
Explanation: Egress counters are showing more buffers or descriptors than actually exist.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ERROR_OCCURRED: %s '%s' occurred. New=%d, Total=%d
Severity: Error
Explanation: An unusual event has been detected.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ESEM_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ESEM table.
Severity: Error
Explanation: The switch is unable to program all sub-intfs or vlan mappings due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of sub-intfs or vlan mappings in the switch.

ESEM_RESOURCE_NORMAL: Hardware resources to program sub-interfaces or vlan mappings are recovered.
Severity: Error
Explanation: The switch was able to program all sub-intfs/vlan mappings in hardware.
Recommended Action: No action is required – this message is for information only.

EXPECTED_INGRESS_RESET: Reset ingress blocks of switch chip %s. This is expected as part of config change.
Severity: Info
Explanation: Software reinitialized the ingress blocks of the chip to apply some configuration. This causes up to 50ms of traffic loss.
Recommended Action: No action is required – this message is for information only.

FABRICSERDES_LINK_FAILED: SERDES %s failed to link up with SERDES %s:%d
Severity: Warning
Explanation: The specified SERDES in the sytem has failed to synchronize and link up with the peer SERDES. This link will not be used for sending and receiving traffic anymore. This may affect switching throughput on a fully-loaded system
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_DMA_ERROR: DMA operation of multicast table on %s failed with %s error.
Severity: Error
Explanation: DMA operation of the given table failed on the specified Fabric card ASIC.
Recommended Action: This might indicate a potential hardware issue in the specified Fabric. Try powering off and powering back on the Fabric card using the configuration command '[no] power enable module Fabric¡n¿'. If the problem persists, contact your support representative.

FABRIC_FIFO_SIZE_ERROR: %s, serdes %s, %s FIFO size out of range, size=%d, max allowed size=%d.
Severity: Error
Explanation: An unusual event has been detected.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_MCAST_TABLE_INIT_TIMEOUT: Fabric Chip %s timed-out during initialization of multicast tables.
Severity: Warning
Explanation: The multicast tables in the specified fabric chip were not properly initialized before enabling traffic to be switched by the fabric chip. This may result in loss of multicast traffic during system boot-up and fabric agent restart.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_NOT_PRESENT: %s can no longer access the switching fabric, stopping all traffic.
Severity: Error
Explanation: The chassis's fabriccards have been removed, or are not working. The chassis must have working fabriccards for traffic to forward.
Recommended Action: Reinsert the fabriccards.

FABRIC_REQUEST_AUDIT: Request audit of switch fabric.
Severity: Info
Explanation: Switch fabric audit was requested by CLI command.
Recommended Action: No action is required – this message is for information only.

FE600_RESTORED_TO_FABRIC: %s restored to the switch fabric.
Severity: Warning
Explanation: Switch fabric redundancy has been restored.
Recommended Action: No action is required – this message is for information only.

FE600_WITHDRAWN_FROM_FABRIC: %s withdrawn from the switch fabric, causing some loss in redundancy.
Severity: Warning
Explanation: A fabric chip has been taken offline due to persistent fabric errors. The fabric card may need to be replaced.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_PARITY_ERROR: Corrino memory parity errors occurred in %s
Severity: Error
Explanation: Corrino memory parity errors have been detected.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INGRESS_RESET: Reset ingress blocks of switch chip %s.
Severity: Warning
Explanation: Software re-initialized the ingress blocks of the chip, causing 50ms of traffic loss.
Recommended Action: No action is required – this message is for information only.

INIT_FAILED: Initialization of %s switch asics failed.
Severity: Error
Explanation: The initialization of the switch asics on this card failed. This could be an intermittent problem, and it will work next time, or it could be bad hardware.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INIT_SUCCEEDED: Initialization of %s switch asics succeeded.
Severity: Info
Explanation: The switch asics have been successfully initialized, and are operating normally.
Recommended Action: No action is required – this message is for information only.

INIT_TOO_LONG: %s has waited too long for %s during initialization. Exiting.
Severity: Error
Explanation: The card has taken longer than expected to initialize. Exiting and retrying
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INTERRUPT_OCCURRED: Interrupt %s on %s. %s
Severity: Error
Explanation: Parity/Ecc errors have been detected in hardware. Most of these errors will be corrected by software
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IPV6_ROUTING_OVERFLOW: %s is unable to fit all the ipv6 routes in hardware due to lack of %s. All ipv6 routed traffic will be dropped.
Severity: Error
Explanation: All ipv6 routed traffic will be dropped due to lack of hardware resources.
Recommended Action: Reconfigure your network.

IPV6_ROUTING_OVERFLOW_RECOVERY_COMPLETED: %s recovered from ipv6 routing overflow.
Severity: Error
Explanation: All ipv6 routes have been re-added.
Recommended Action: No action is required – this message is for information only.

IPV6_ROUTING_OVERFLOW_RECOVERY_STARTED: %s is starting to recover from ipv6 routing overflow.
Severity: Error
Explanation: All ipv6 routes are being re-added.
Recommended Action: Reconfigure your network if ipv6 routing overflow persists.

ISEMA_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ISEM-A table.
Severity: Error
Explanation: The switch is unable to program all tunnels or sub-intfs or vlan mappings due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of tunnels or sub-intfs or vlan mappings in the switch.

ISEMA_RESOURCE_NORMAL: Hardware resources to program tunnels or sub-interfaces or vlan mappings are recovered.
Severity: Error
Explanation: The switch was able to program all tunnels/sub-intfs/vlan mappings in hardware.
Recommended Action: No action is required – this message is for information only.

ISEMB_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ISEM-B table.
Severity: Error
Explanation: The switch is unable to program all tunnels or sub-intfs or vlan mappings due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of tunnels or sub-intfs or vlan mappings in the switch.

ISEMB_RESOURCE_NORMAL: Hardware resources to program tunnels or sub-interfaces or vlan mappings are recovered.
Severity: Error
Explanation: The switch was able to program all tunnels/sub-intfs/vlan mappings in hardware.
Recommended Action: No action is required – this message is for information only.

MAX_STORM_CONTROL_LEVELS_CONFIGURED: Cannot configure storm-control %s level for %s in hardware, maximum storm control levels per chip limit reached.
Severity: Warning
Explanation: The forwarding ASIC only supports 32 unique storm control levels per chip. Trying to configure more levels will not succeed. Please reuse one of the already configured storm control levels for this interface.
Recommended Action: No action is required – this message is for information only.

MCAST_BOUNDARY_UNSUPPORTED_ERROR: Multicast boundary is not supported in the current platform.
Severity: Error
Explanation: A multicast boundary is configured but is currently not supported by the platform. The configuration will be ignored.
Recommended Action: To avoid seeing this error again, remove all ”ip multicast boundary” commands from your configuration file

MCAST_PICASSO_NOT_READY: Picasso memory is not ready in SandMcast.
Severity: Error
Explanation: Picasso memory is not ready in SandMcast. SandMcast is about to restart.
Recommended Action: No action is required – this message is for information only.

PETRA_NOT_QUIET: %s ’%s’ are %d, but should be %d
Severity: Debug
Explanation: Traffic activity has been detected while verifying Petra quiescence
Recommended Action: No action is required – this message is for information only.

POSSIBLE_FABRIC_ERROR: Detected possible fabric error, which was not resolved by resetting the switch fabric. See 'show platform sand health' for more details.
Severity: Warning
Explanation: Errors occurred which were not resolved by resetting the fabric. This may be a symptom of a possible problem with a fabric card.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POSSIBLE_STUCK_PORT: %s may be stuck. Tx queues should be empty, but descriptors detected UC: %d MC: %d chip: %d
Severity: Error
Explanation: There are packet descriptors in a disabled port's tx queues. This can be a symptom of a stuck egress port. If you enable the port, and no packets transmit out, the port is unusable until the forwarding agent restarts.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_CYCLE_AFTER_INIT_FAILURE: %s is being power cycled due to consecutive initialization failures
Severity: Error
Explanation: The initialization of switch asics failed and the card is being power cycled to recover from the failure.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_CYCLE_REQUIRED: Software detected an error condition which requires a power cycle to recover. Please reload the system at the soonest convenient time.
Severity: Error
Explanation: Software detected that a power cycle is required, but is unable to power cycle the hardware. Please reload the system to power cycle it, and recover from the error.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_AFTER_DDR_PLL_LOCKED_FAILURE: %s is being powered off due to consecutive initialization failures.
Severity: Error
Explanation: The initialization of switch ASICs (DDR) failed and the card is beingpowered off.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_AFTER_PERSISTENT_DMA_FAILURE: Powering off Linecard %d because of %d DMA health check failures within %d hours
Severity: Warning
Explanation: The linecard was powered off due to persistent DMA failures on the linecard.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

QDR_ECC_ERROR: Ecc errors occurred in %s packet descriptor memory. New=%d, Total=%d
Severity: Error
Explanation: Ecc errors occurred in qdr packet descriptor memory of a switch chip. If the problem continues to happen, please contact support.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RACL_MAX_LIMIT: Additional RACL entries could not be programmed on %s for %s
Severity: Error
Explanation: RACLs on excess VLANs and VRRPs will fail
Recommended Action: No action is required – this message is for information only.

REBOOT_AFTER_INIT_FAILURE: Initialization of %s switch ASICs failed. Automatically rebooting switch to attempt recovery
Severity: Error
Explanation: The initialization of switch ASICs failed, and the switch is being rebooted to recover from the failure. If initialization fails a second time, no automatic reboot will occur.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

REQUEST_RESET: Request reset of %s.
Severity: Warning
Explanation: Specified reset was requested by CLI command.
Recommended Action: No action is required – this message is for information only.

RESET_EGRESS_SCHEDULER: Reset egress scheduler of switch chip %s.
Severity: Warning
Explanation: Software has reset the egress scheduler of the switch chip.
Recommended Action: No action is required – this message is for information only.

RESET_FULL_CHIP: Reset all internal blocks of switch chip %s.
Severity: Warning
Explanation: Software re-initialized all internal blocks of the switch chip. This reset causes some traffic loss, but does not flap the links.
Recommended Action: No action is required – this message is for information only.

ROUTING_ARP_RESOURCE_FULL: Hardware resources are insufficient to program all ARP entries
Severity: Error
Explanation: The switch is unable to program all ARP entries due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of ARP entries in the switch.

ROUTING_ARP_RESOURCE_NORMAL: All ARP entries are programmed in hardware
Severity: Error
Explanation: The switch was able to program all the ARP entries in hardware.
Recommended Action: No action is required – this message is for information only.

ROUTING_FEATURE_INCOMPATIBLE: Egress IPv6 ACLs will not work while sharing next-hops between IPv4/IPv6.
Severity: Error
Explanation: Egress IPv6 ACLs and next-hop sharing are not compatible features.
Recommended Action: Turn off adj sharing by issuing 'no ip hardware fib next-hop sharing'.

ROUTING_GRE_TUNNEL_SIP_RESOURCE_FULL: Hardware resources may be insufficient to program new nexthop group entries with new source IP addresses
Severity: Warning
Explanation: The switch may be unable to program new nexthop group entries due to insufficient source IP index hardware resources.
Recommended Action: Configure your network to have new nexthop group entries reuse existing nexthop group source IP address configured in the switch.

ROUTING_GRE_TUNNEL_SIP_RESOURCE_NORMAL: New nexthop groups with new source IP addresses maybe programmed now in hardware
Severity: Warning
Explanation: The switch maybe able to program new nexthop group entries in hardware as source IP index resource is now available.
Recommended Action: No action is required – this message is for information only.

ROUTING_GRE_TUNNEL_TTL_RESOURCE_FULL: Hardware resources may be insufficient to program new nexthop group entries with new TTL values
Severity: Warning
Explanation: The switch may be unable to program new nexthop group entries due to insufficient TTL index hardware resources.
Recommended Action: Configure your network to have new nexthop group entries reuse existing nexthop group TTL values configured in the switch.

ROUTING_GRE_TUNNEL_TTL_RESOURCE_NORMAL: New nexthop groups with new TTL values maybe programmed now in hardware
Severity: Warning
Explanation: The switch maybe able to program new nexthop group entries in hardware as TTL index resource is now available.
Recommended Action: No action is required – this message is for information only.

ROUTING_IPV6_HOST_ROUTE_RESOURCE_FULL: TCAM entry could not be allocated for IPv6 host route
Severity: Error
Explanation: The switch is unable to program IPv6 host routes due to insufficient hardware resources for new IPv6 networks
Recommended Action: Check the number of IPv6 networks with host routes and restrict unique /64 networks to 511

ROUTING_IPV6_HOST_TCAM_ALLOCATED: TCAM bank successfully allocated for IPv6 host routes
Severity: Error
Explanation: TCAM bank is now available for programming IPv6 host routes in hardware
Recommended Action: No action is required – this message is for information only.

ROUTING_IPV6_HOST_TCAM_ALLOC_FAILED: TCAM bank could not be allocated for IPv6 host routes
Severity: Error
Explanation: The switch is unable to program ipv6 host routes due to insufficient hardware resources
Recommended Action: Reconfigure the switch to free up tcam resources for ipv6 host route programming OR configure no ipv6 host-route exact-match to disable IPv6 host routes getting programmed in exact match table

ROUTING_IP_TUNNEL_RESOURCE_FULL: Hardware resources are insufficient to program all IP tunnel entries
Severity: Error
Explanation: The switch is unable to program all IP tunnel entries due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of IP tunnel entries in the switch.

ROUTING_IP_TUNNEL_RESOURCE_NORMAL: All IP tunnel entries are programmed in hardware
Severity: Error
Explanation: The switch was able to program all the IP tunnel entries in hardware.
Recommended Action: No action is required – this message is for information only.

ROUTING_LEM_RESOURCE_FULL: Hardware resources are insufficient to program all mac and host route entries
Severity: Error
Explanation: The switch is unable to program all mac and host route entries due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of mac and host route entries in the switch.

ROUTING_LEM_RESOURCE_NORMAL: All mac and host route entries are programmed in hardware
Severity: Error
Explanation: The switch was able to program all the mac and host route entries in hardware.
Recommended Action: No action is required – this message is for information only.

ROUTING_MPLS_TUNNEL_RESOURCE_FULL: Hardware resources are insufficient to program all mpls tunnel entries
Severity: Error
Explanation: The switch is unable to program all mpls tunnel entries due to insufficient hardware resources.
Recommended Action: Reconfigure your network to reduce the number of mpls tunnel entries in the switch.

ROUTING_MPLS_TUNNEL_RESOURCE_NORMAL: All mpls tunnel entries are programmed in hardware
Severity: Error
Explanation: The switch was able to program all the mpls tunnel entries in hardware.
Recommended Action: No action is required – this message is for information only.

ROUTING_OVERFLOW: %s is unable to fit all the routes in hardware due to lack of %s. All routed traffic will be dropped.
Severity: Error
Explanation: All routed traffic will be dropped due to lack of hardware resources.
Recommended Action: Reconfigure your network.

ROUTING_OVERFLOW_RECOVERY_COMPLETED: %s recovered from routing overflow.
Severity: Error
Explanation: All routes have been re-added.
Recommended Action: No action is required – this message is for information only.

ROUTING_OVERFLOW_RECOVERY_STARTED: %s is starting to recover from routing overflow.
Severity: Error
Explanation: All routes are being re-added.
Recommended Action: Reconfigure your network if routing overflow persists.

SERDES_RESTORED_TO_FABRIC: Serdes %s restored to the switch fabric.
Severity: Warning
Explanation: A fabric serdes has been brought back online.
Recommended Action: No action is required – this message is for information only.

SERDES_WITHDRAWN_FROM_FABRIC: Serdes %s withdrawn from the switch fabric.
Severity: Warning
Explanation: A fabric serdes has been taken offline due to persistent serdes errors.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSO_NOT_SUPPORTED: Redundancy protocol SSO for card %s is not supported in this software version.
Severity: Info
Explanation: In this software version, Stateful Switchover support for this card is not available.
Recommended Action: Configure redundancy protocol to RPR for thischassis.

STUCK_SCHEDULER_SHAPER: Detected stuck scheduler shaper on %s for flow %d from %s to %s.
Severity: Warning
Explanation: Software detected a possibly stuck scheduler shaper. If confirmed, software resets the egress scheduler of this switch chip, to correct the condition.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STUCK_VOQ_INCONSISTENT_QUEUE: Software has detected that voq %d of switch %s pointing to fap %d port %d with traffic class %d has %dB of packets with no dequeues. Found a queue table with inconsistent entries.
Severity: Error
Explanation: No description needed
Recommended Action: No action is required – this message is for information only.

STUCK_VOQ_WITH_CREDITS: Software has detected that voq %d of switch %s pointing to fap %d port %d with traffic class %d has %dB of packets with no dequeues in the last %d ms. It's credit balance is %d and %d credits have arrived in the same amount of time.
Severity: Warning
Explanation: No description needed
Recommended Action: No action is required – this message is for information only.

SWITCH_INIT_FAILED: %s (%s) initialization failed.
Severity: Error
Explanation: The initialization sequence of this switch asic failed. This could be an intermittent problem, and it will work next time. If it persists, it could be bad hardware.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TBL_LOCK_TIMEOUT: SandHam table lock timed out.
Severity: Error
Explanation: Software detected an excessive time required to acquire a lock required for accessing a Petra indirect table.The agent was restarted.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNSUPPORTED_URPF_MODE: Ignoring unsupported uRPF mode %s.
Severity: Error
Explanation: Configured uRPF mode is not supported on this platform
Recommended Action: Remove unsupported uRPF mode from configuration.

2.73 SANDACL Messages

ROUTED_PORT_ACL_SHARING_MODE_CHANGE: ACLs applied on routed ports now share resources with %s ACLs
Severity: Info
Explanation: ACLs applied on routed ports will be uninstalled and installed again
Recommended Action: No action is required – this message is for information only.

TTL1_CONFIG_CONSISTENT: The ttl1 trapping configuration on petraA and arad is now consistent
Severity: Warning
Explanation: Ttl 1 trapping behavior is no longer different
Recommended Action: No action is required – this message is for information only.

TTL1_CONFIG_INCONSISTENT: The ttl 1 trapping configuration on petraA and arad is different.
Severity: Warning
Explanation: Ttl 1 trapping behavior is different between the petraA and arad linecards. Ingerss behavior will differ depending on the linecard packets ingerss on.
Recommended Action: To solve this issue, configure ttl1 trapping on petraA and arad as appropiate using [no] platform petraA ip trap ttl-1 and [no] platform arad ip trap ttl-1

VLAN_IPV6_ACL_SHARING_MODE_CHANGE: Change in resource sharing behavior for IPv6 ACLs applied on VLAN interfaces
Severity: Info
Explanation: SandAcl agent will restart to share/unshare ACL hardware resources attached across multiple VLAN interfaces
Recommended Action: No action is required – this message is for information only.

2.74 SANDTOPO Messages

INIT_FAILED: SandTopo agent initialization failed due to (%s) for the past (%s) seconds.
Severity: Error
Explanation: SandTopo initialization failed.
Recommended Action: No action is required – this message is for information only.

INIT_RECOVERED: Initialization of SandTopo Agent succeeded.
Severity: Info
Explanation: SandTopo agent has initialized successfully and is running normally.
Recommended Action: No action is required – this message is for information only.

2.75 SECURITY Messages

ARP_PACKET_DROPPED: Dropped ARP packet on interface %s Vlan %s because %s. Received: %s/%s.
Severity: Warning
Explanation: ARP inspection dropped an ARP packet because it did not match an entry in the source binding database.
Recommended Action: Determine why the bad ARP packet was sent and correct the issue.

ARP_RATE_EXCEEDED: Exceeded ARP warning rate on %s
Severity: Warning
Explanation: The switch received enough ARP packets to trigger this warning. This can cause the port to become errdisabled depending on configuration. ARP packets may also be delayed in processing by the CPU.
Recommended Action: Determine why so many ARP packets are being sent and slow the rate to acceptable levels.

HW_ENTROPY_ERROR: Hardware entropy generation is encountering errors: %s
Severity: Error
Explanation: Hardware entropy generation is experiencing problems and the device is being reset. The SECURITY_HW_ENTROPY_RECOVER message will be logged when the device is functioning properly.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HW_ENTROPY_FATAL_ERROR: Hardware entropy generation failed: %s: %s
Severity: Error
Explanation: Hardware entropy generation failed due to an unrecoverable error. The Sol agent will restart.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HW_ENTROPY_RECOVER: Hardware entropy generation is now working properly.
Severity: Error
Explanation: Hardware entropy was experiencing problems which have been corrected and the device is functioning properly again.
Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_START: Hardware entropy generation started.
Severity: Info
Explanation: Notification that the hardware entropy generation is running.
Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_STOP: Hardware entropy generation stopped.
Severity: Info
Explanation: Notification that the hardware entropy generation is not running.
Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_UNSUPPORTED: %s does not support hardware entropy generation.
Severity: Warning
Explanation: Hardware entropy generation not supported on platform for the given reason.
Recommended Action: No action is required – this message is for information only.

IPSG_HW_RESOURCE_FULL: Ingress TCAM resources are insufficient to program IP source guard entries%s
Severity: Error
Explanation: The switch is unable to program IP source guard entries due to insufficient ingress TCAM resources. As a result, IP traffic is not properly filtered%s
Recommended Action: Free up some ingress TCAM resources for IP source guard. One or more of the following steps might be helpful: 1. Remove unused IP source binding entries. 2. Reconfigure other features that use ingress TCAMs.

IPSG_HW_RESOURCE_RECOVERED: All IP source guard entries on unit %d are programmed in TCAM
Severity: Error
Explanation: The switch was able to install IP source guard entries to the ingress TCAM.
Recommended Action: IP source guard configuration on unit %d works in hardware.

SSH_CLIENT_CONNECTING: %s is connecting a SSH session from the switch to %s@%s:%s
Severity: Info
Explanation: A person logged into the switch began a SSH session to an external server.
Recommended Action: No action is required – this message is for information only.

SSH_CLIENT_DISCONNECTED: %s disconnected the SSH session from the switch to %s@%s:%d
Severity: Info
Explanation: The SSH session from the switch to the remote server is now over
Recommended Action: No action is required – this message is for information only.

SSH_TUNNEL_ALGORITHM_MISMATCH: SSH tunnel %s was unable to connect to the configured remote server due to not finding a matching %s.
Severity: Error
Explanation: The remote server did not support an algorithm that the switch could use.
Recommended Action: Check if the server and switch are configured correctly.

SSH_TUNNEL_CLOSED_REMOTELY: SSH tunnel %s had it's connection closed by the remote host.
Severity: Error
Explanation: The SSH Tunnels connection was closed by the remote host.
Recommended Action: Check the logs for the remote hosts SSH server.

SSH_TUNNEL_CONFIGURED: SSH tunnel %s from local TCP port %s to %s:%s via %s@%s is fully configured.
Severity: Info
Explanation: An SSH tunnel was just configured and will try to connect.
Recommended Action: No action is required – this message is for information only.

SSH_TUNNEL_CONNECTION_REFUSED: SSH tunnel %s had its initial connection refused by the remote host.
Severity: Error
Explanation: The initial attempt to open an ssh connection was refused by the remote host.
Recommended Action: Check that the remote host has its ssh server running and accepting connections on port 22.

SSH_TUNNEL_CORRUPT_PACKET_RECEIVED: SSH tunnel %s received a corrupt packet from the configured remote server.
Severity: Error
Explanation: A packet from the remote server was received that passed the TCP/IP checksum but failed the SSH checks.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSH_TUNNEL_ESTABLISHED: SSH tunnel %s from local TCP port %s to %s:%s via %s@%s is established.
Severity: Info
Explanation: An SSH tunnel was just started to a remote server.
Recommended Action: No action is required – this message is for information only.

SSH_TUNNEL_HOSTKEY_VERIFY_FAILED: SSH tunnel %s was unable to connect to the configured host because it could not verify the hostkey of the remote host.
Severity: Error
Explanation: The switch is set to check all hostkeys of remote entities it connects to. Verification of the remote host failed and the switch did not connect.
Recommended Action: Make sure the known hosts for the switch contains the hostkey the remote SSH server is offering upon connection.

SSH_TUNNEL_HOSTNAME: SSH tunnel %s was unable to resolve hostname: %s
Severity: Error
Explanation: The SSH tunnel was unable to resolve the hostname and could not connect.
Recommended Action: Check the hostname and DNS resolution.

SSH_TUNNEL_INITIAL_TIMEOUT: SSH tunnel %s was unable to reach the remote host and the connection timed out.
Severity: Error
Explanation: SSH Tunnels have a limited amount of time to reach the host to make the connection. The tunnel was unable to find a route to the configured host in that timeframe.
Recommended Action: Check that the address for the configured host is correct and that a route exists from the switch to the host.

SSH_TUNNEL_LOCAL_PORT_ERROR: SSH Tunnel %s was unable to use the configured local port.
Severity: Error
Explanation: The switch was unable to use the local port for an SSH Tunneling connection.
Recommended Action: Use a different local port that is not being used by another program.

SSH_TUNNEL_LOG_FILE_TOO_LARGE: SSH Tunnel %s had its log file grow too large. The tunnel will be restarted since this is indicative of an issue.
Severity: Warning
Explanation: The log file of an SSH Tunnel is generally a fixed size unless there is an issue. Since the log file got too large a copy will be saved to the disk and the tunnel restarted.
Recommended Action: Check syslog and the tunnels log file at /etc/ssh/ to determine if there are any issues.

SSH_TUNNEL_REMOTE_PORT_ERROR: SSH Tunnel %s is unable to open the port on the remote host.
Severity: Error
Explanation: When the SSH Tunnel attempted to open a connection on the remote side it was prevented from doing so by the remote hosts SSH server.
Recommended Action: Make sure the remote server allows TCP forwarding, allows the configured port to be opened, and the port is not the point of a resource allocation conflict.

SSH_TUNNEL_SLOW_RESTART: SSH Tunnel %s will be delayed before restarting
Severity: Warning
Explanation: SSH Tunnels can only restart a limited number of times before they are delayed. This is to prevent bad connections from attempting to connect over and over. Once the tunnel successfully runs for some time, fast restarts will work again.
Recommended Action: Check for previous syslog messages regarding SSH tunnels. If this doesn't explain why the SSH Tunnel is restarting so often check the tunnel logs under /etc/ssh.

SSH_TUNNEL_SWITCH_HOSTKEY_DENIED: SSH tunnel %s was unable to log into its configured host via public-key authentication
Severity: Error
Explanation: The SSH tunnel attempted to log into the configured host with the switch's hostkey and was denied.
Recommended Action: Check that the switches public hostkey is installed on the remote host for the username that is being used to log in.

SSH_TUNNEL_TIMEOUT: SSH tunnel %s had the remote host timeout while connected.
Severity: Error
Explanation: The SSH tunnel periodically sends server alive messages through the tunnel and timed out on receiving a reply for them.
Recommended Action: Check that the remote host has it's SSH server running and if it has any error messages in its log.

SSH_TUNNEL_UNCONFIGURED: SSH tunnel %s from local TCP port %s to %s:%s via %s@%s has been unconfigured.
Severity: Info
Explanation: An SSH tunnel to a remote server just stopped running and will not be automatically restarted since it was terminated by a command.
Recommended Action: No action is required – this message is for information only.

SSL_DIFFIE_HELLMAN_PARAMETERS_INIT_FAILED: Initializing SSL Diffie-Hellman parameters failed. Try 'reset ssl diffie-hellman parameters' to recover
Severity: Error
Explanation: Attempt to initialize SSL Diffie-Hellman parameters has failed.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSL_DIFFIE_HELLMAN_PARAMETERS_RESET_FAILED: Resetting SSL Diffie-Hellman parameters failed. Existing parameters will be used
Severity: Error
Explanation: Attempt to reset SSL Diffie-Hellman parameters has failed. Existing Diffie-Hellman parameters will be used.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSL_PROFILE_INVALID: SSL profile '%s' is invalid. Check 'show management security ssl profile %s' for details
Severity: Error
Explanation: The SSL profile is invalid. Possible causes are missing certificate, missing key, mismatch of certificate with the key, expired or not yet valid certificate and non root certificate in the trusted list.
Recommended Action: Check 'show management security ssl profile' command and fix the errors reported under 'Error' column.

SSL_PROFILE_VALID: SSL profile '%s' is valid
Severity: Info
Explanation: The SSL profile is valid.
Recommended Action: No action is required – this message is for information only.

2.76 SERVERMONITOR Messages

SERVER_DISCOVERED: Server %s discovered on interface %s.
Severity: Info
Explanation: Server is discovered on the interface.
Recommended Action: No action is required – this message is for information only.

SERVER_DOWN: Server %s is down on interface %s.
Severity: Info
Explanation: Server is disconnected. Either the connecting link is down or the server has shutdown.
Recommended Action: No action is required – this message is for information only.

SERVER_INACTIVE: Server %s is inactive. It was last seen on interface %s.
Severity: Info
Explanation: The server is either not responding to any request or there's no active traffic flow. Hence, it's assumed that the server is inactive.
Recommended Action: No action is required – this message is for information only.

SERVER_MOVED: Server %s moved from interface %s to %s.
Severity: Info
Explanation: The switch discovered a server, previously learned on one interface, on another, different interface.
Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_END: Proxy service ended for server %s on interface %s.
Severity: Notice
Explanation: Proxy service for the server has ended. Either the proxy service lifetime elapsed or the interface connecting to the server is link up again.
Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_IGNORED: Proxy service for server %s on interface %s ignored due to static MAC entry
Severity: Notice
Explanation: Proxy service for the server is ignored as there is a static mac entry for the MAC Address of the server
Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_LIMIT_EXCEEDED: Maximum number of servers that can be proxied simultaneously has been reached.
Severity: Notice
Explanation: A maximum of 256 servers can be proxied simultaneously. No additional failed server will be proxied after that limit has been reached.
Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_LIMIT_NO_LONGER_EXCEEDED: Number of servers that are currently being proxied is below the maximum simultaneously proxied server limit.
Severity: Notice
Explanation: The number of servers currently being proxied is less than the maximum limit of 256. Additional failed servers will be proxied from now on.
Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_START: Proxy service started for server %s on interface %s.
Severity: Notice
Explanation: Proxy service for the server has started. Any host that sends traffic to the server will be notified that the server is down.
Recommended Action: No action is required – this message is for information only.

SERVER_UP: Server %s is up on interface %s.
Severity: Info
Explanation: Server is connected and active on the interface.
Recommended Action: No action is required – this message is for information only.

2.77 SPANTREE Messages

BLOCK_BPDUGUARD: Received BPDU packet on %s with BPDU guard enabled. Disabling interface. (source mac %s)
Severity: Warning
Explanation: The switch received a Spanning Tree BPDU packet on a port which has BPDU guard enabled. When the switch receives a BPDU packet on a BPDU guard enabled port, it disables the port and drops the BPDU packet without further processing.
Recommended Action: The switch received a Spanning Tree BPDU packet on a port which has BPDU guard enabled. BPDU guard is configured directly for a port, or globally configured for all portfast interfaces. BPDU guard is typically enabled on portfast or edge ports that are connected to end hosts. BPDU packets are not expected to be received on portfast ports by the switch, and processing them can lead to problems in Spanning Tree. So, when the switch receives a BPDU packet on a port with BPDU guard enabled, it disables the port. To address the issue, either remove the device attached to the port that is sending the BPDU packet, or disable BPDU guard. After resolving the issue, the port can be enabled by issuing the shutdown command, followed by no shutdown command in interface configuration mode.

BLOCK_RATELIMITER: Exceeded BPDU rate limiter on %s
Severity: Warning
Explanation: The switch received more Spanning Tree BPDUs than allowed by the configured maximum. The port has been disabled to prevent a denial-of-service from excessive CPU usage.
Recommended Action: The switch received more BPDUs on a given port than allowed by the BPDU rate limiter configured for that port, or the global rate limiter. In order to prevent a suspected denial-of-service attack, the switch has disabled the port. Figure out why the number of BPDUs received on the port exceeds the expected maximum, and re-enable the port.

DISABLED: Spanning tree is disabled.
Severity: Info
Explanation: The spanning tree protocol is disabled. All ports are forwarding.
Recommended Action: No action is required – this message is for information only.

INTERFACE_ADD: Interface %s has been added to instance %s
Severity: Info
Explanation: The given interface is now running the given spanning tree instance.
Recommended Action: No action is required – this message is for information only.

INTERFACE_BRIDGE_ASSURANCE_ENTER: Interface %s in %s is entering the bridge assurance inconsistent state
Severity: Warning
Explanation: The given interface is configured as a network port with bridge assurance. Thus, it should be connected to another bridge running bridge assurance at all times. However, the interface has not been receiving BPDUs so it has been set to inconsistent to avoid STP loops.
Recommended Action: The port will exit the inconsistent state if it begins receiving BPDUs again, bridge assurance is disabled, or the port is reconfigured as a non-network port.

INTERFACE_BRIDGE_ASSURANCE_EXIT: Interface %s in %s is exiting the bridge assurance inconsistent state
Severity: Warning
Explanation: The given interface was previously in the bridge assurance inconsistent state in order to avoid STP loops. This state has been cleared, and normal operation has resumed.
Recommended Action: The port exited the inconsistent state either because it began receiving BPDUs again, bridge assurance was disabled on the interface, or the port is no longer configured a network port.

INTERFACE_DEL: Interface %s has been removed from instance %s
Severity: Info
Explanation: The given interface is no longer running the given spanning tree instance.
Recommended Action: No action is required – this message is for information only.

INTERFACE_SELF_LOOPED: Interface %s received its own bpdu: blocking interface (bridge mac %s port id %d)
Severity: Warning
Explanation: The given interface received a bpdu that it transmitted. To prevent a spanning tree loop from developing, the switch blocks the interface.
Recommended Action: The interface appears to be looped back to itself. First, find the source of the loop and remove it. Then shutdown and re-enable the interface to restore normal traffic flow.

INTERFACE_STATE: Interface %s instance %s moving from %s to %s
Severity: Info
Explanation: The spanning tree state of the interface in the given instance changed to the given new state.
Recommended Action: No action is required – this message is for information only.

LOOPGUARD_BLOCK: Loop guard blocking port %s on %s
Severity: Warning
Explanation: The spanning tree message age timer expired, because no BPDUs were received from the designated bridge. Because this condition could be caused by an unidirectional link failure, the interface is put into blocking state and marked as loop guard inconsistent in order to prevent possible loops from being created.
Recommended Action: Use the show spanning-tree inconsistentports command to review the list of interfaces with loop guard inconsistencies. Determine why devices that are connected to the listed ports are not sending BPDUs. One reason could be that they do not run the Spanning Tree Protocol; in this case, you should disable loop guard in the inconsistent interfaces or start the Spanning Tree Protocol on the other side of the links, depending on the context. Another reason could be a failure in the cable. If the link has a failure that makes it unidirectional (you can transmit, but you cannot receive), you should replace the old cable with a new cable.

LOOPGUARD_CONFIG_CHANGE: Loop guard %s on port %s.
Severity: Info
Explanation: There was a change in the spanning tree loop guard configuration for the listed interface. When enabled, the interface will be put into blocking state and marked as loop guard inconsistent when the message age timer expires because no BPDUs were received from the designated bridge. This feature is used to detect unidirectional links.
Recommended Action: Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration; otherwise, no further action is required.

LOOPGUARD_UNBLOCK: Loop guard unblocking port %s on %s
Severity: Warning
Explanation: The listed interface received a BPDU, and if the inconsistency was due to a unidirectional link failure, the problem does not exist anymore. The loop guard inconsistency is cleared for the interface, which is taken out of the blocking state.
Recommended Action: This is an informational message only; no action is required.

MODE_CHANGE: Spanning tree mode is now %s.
Severity: Info
Explanation: The spanning tree operating mode has changed.
Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_CLEARED: Cleared MST-PVST border on %s
Severity: Info
Explanation: The given interface is no longer a border port facing PVST region.
Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_DETECTED: Detected MST-PVST border on %s
Severity: Info
Explanation: The given interface is a border port facing a PVST region.
Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_INCONSISTENT_ENTER: Interface %s is entering the PVST inconsistent state
Severity: Warning
Explanation: The given interface is a border port facing PVST region. However, the interface is receiving PVST BPDUs with inconsistent root information so it has been set to inconsistent to avoid STP loops.
Recommended Action: The interface will exit the PVST inconsistent state if it begins receiving PVST BPDUs with consistent root information or interface is connected to MST region or MST-PVST interoperation is disabled.

MSTPVST_BORDER_INCONSISTENT_EXIT: Interface %s is exiting the PVST inconsistent state
Severity: Warning
Explanation: The given interface was previously in PVST inconsistent state in order to avoid STP loops. This state has been cleared, and normal operation has resumed.
Recommended Action: The port exited the PVST inconsistent state either because it began receiving PVST BPDUs with consistent root information or interface is connected to MST region or MST-PVST interoperation is disabled.

MSTP_REGION_BORDER_CLEARED: MSTP region border cleared on %s
Severity: Info
Explanation: The given interface is no longer a MSTP border.
Recommended Action: No action is required – this message is for information only.

MSTP_REGION_BORDER_DETECTED: MSTP region border detected on %s
Severity: Info
Explanation: The given interface is a MSTP border facing another region
Recommended Action: No action is required – this message is for information only.

OVERRIDE: Spanning tree is disabled, port state is controlled by %s.
Severity: Info
Explanation: The spanning tree protocol is disabled and port state is now controlled by the specified feature.
Recommended Action: No action is required – this message is for information only.

ROOTCHANGE: Root changed for instance %s: new root interface is %s, new root bridge mac address is %s %s
Severity: Info
Explanation: The spanning tree root bridge of the given instance changed to the given new value.
Recommended Action: No action is required – this message is for information only.

ROOTGUARD_BLOCK: Root guard blocking port %s on %s
Severity: Warning
Explanation: A BPDU was received on the listed interface that advertised a spanning tree root bridge that was superior to the one already in use. The interface is put into a blocking state and marked as root guard inconsistent to prevent a suboptimal spanning tree topology from forming.
Recommended Action: Enter the show spanning-tree inconsistentports command to review the list of interfaces with root guard inconsistencies. Determine why devices that are connected to the listed ports are sending BPDUs with a superior root bridge, and then take action to prevent further occurrences. Once the invalid BPDUs have been stopped, the interfaces automatically recover and resume normal operation. By looking at the configuration, ensure that it is appropriate to enable root guard on the interface.

ROOTGUARD_CONFIG_CHANGE: Root guard %s on port %s.
Severity: Info
Explanation: There was a change in the spanning tree root guard configuration for the listed interface. If root guard is enabled, any BPDU that is received on the interface that advertises a superior spanning tree root bridge to the one that is already in use will cause the interface to be put into blocking state and marked as root guard inconsistent.
Recommended Action: Verify that this is the correct configuration for the listed interface. If this is not the correct configuration, change the configuration to one that is appropriate for the interface.

ROOTGUARD_UNBLOCK: Root guard unblocking port %s on %s
Severity: Warning
Explanation: The listed interface is no longer receiving BPDUs that are advertising a superior root bridge. The root guard inconsistency is cleared for the interface and then is taken out of the blocking state if appropriate.
Recommended Action: This is an informational message only; no action is required.

RXDOT1QPKT: A non-standard IEEE BPDU packet was received and discarded on interface %s (source mac %s). The packet was inconsistent with the IEEE standard, because it was encapsulated with an 802.1Q header.
Severity: Warning
Explanation: The switch received an 802.1Q tagged Spanning Tree BPDU packet. Arista Networks switches drop these packets without further processing, so the protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its Spanning Tree BPDU packets untagged or configure 'l2-protocol encapsulation dot1q vlan ¡x¿' on Arista switches to enable tagged BPDU processing.
Recommended Action: The switch received an 802.1Q tagged Spanning Tree BPDU packet. According to the IEEE Spanning Tree standards (802.1D, 802.1w, and 802.1s),Spanning Tree BPDU packets are to be sent untagged. Various vendors use proprietary extensions to the standard that send tagged Spanning Tree BPDU packets. Arista Networks switches drop these tagged packets without further processing, so the Spanning Tree protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its Spanning Tree BPDU packets untagged. This usually requires configuring the sending switch to use a single Spanning Tree or to use the IEEE standard Multiple Spanning Tree (802.1s) mode of the protocol. It may also require explicitly configuring the sending switch to send its Spanning Tree BPDU packets untagged. Another workaround is to run the command 'l2-protocol encapsulation dot1q vlan ¡x¿' command

TOPOLOGY_ASSIGNED: A spanning tree topology has been assigned to VLAN %s
Severity: Info
Explanation: A VLAN that previously had no assigned topology due to maximum limit exceeded has now been assigned one.
Recommended Action: No action is required – this message is for information only.

TOPOLOGY_LIMIT_EXCEEDED: No topology created for VLAN %s. The maximum number of supported topologies is %s. The number of configured VLANs is %s more than the number of allowed topologies
Severity: Warning
Explanation: Maximum allowed spanning tree topologies exceeded. All traffic on this VLAN will be discarded.
Recommended Action: Remove some active vlans to go within the maximum limit supported.

TOPOLOGY_MISMATCH: VLAN %s is not on the same topology as its primary VLAN %s.
Severity: Warning
Explanation: A primary VLAN and its secondary VLANs must be on the same topology. Spanning tree is disabled on any secondary VLAN that does not share a topology with its primary VLAN.
Recommended Action: Assign the primary and secondary VLANs to the same topology.

2.78 SSO Messages

DATA_CHECKSUM_ERROR: SSO hardware shadow memory on standby does not match active for %s
Severity: Info
Explanation: SSO software will take corrective action
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_DEVICE_ERROR: No PCIe NT bridge devices found for SSO hardware shadow.
Severity: Error
Explanation: SSO software over PCIe will not work
Recommended Action: If this problem persists, please contact your support representative for assistance

PEER_MANIFEST_NOT_ACCEPTABLE: Peer's SSO manifest differs
Severity: Error
Explanation: SSO manifest mismatch between active and standby
Recommended Action: If this problem persists, please contact your support representative for assistance

2.79 STAGEMGR Messages

FATAL_ERROR_REBOOT_REQUEST: Agent %s encountered a fatal error. The system will restart now. (%s)
Severity: Error
Explanation: One or more agents has encountered a problem. The system will now save diagnostic information and do a normal reload to fix the problem.
Recommended Action: The system has generated diagnostic information to help pinpoint the failure. Please contact your technical support representative to find out how to send this information to Arista.

PERSISTENT_RESTART_LOG_REQUEST: Agent %s encountered a non-fatal error prior to reload. (%s)
Severity: Warning
Explanation: An agent encountered a problem prior to restarting the system.
Recommended Action: No action is required – this message is for information only.

STAGE_COMPLETE_AFTER_TIMEOUT: %s resumed after stage %s completed after timeout.
Severity: Warning
Explanation: A stage that had been taking longer than expected to complete has now completed. Stages that depend on this completion are able to proceed.
Recommended Action: No action is required – this message is for information only.

STAGE_SLOW: %s stage %s timed out
Severity: Warning
Explanation: A stage in progression is taking longer than expected. Stages that depend on this stage will begin after this stage is completed.
Recommended Action: No action is required – this message is for information only.

2.80 STRATA Messages

40G_MODE_CHANGE: Change in interface configuration from 10G to 40G or vice versa, the StrataAgent will restart.
Severity: Info
Explanation: When a QSFP+ port is reconfigured from 4x10G to 1x40G or vice versa the switch ASIC must be reconfigured, requiring the StrataAgent to restart.
Recommended Action: This behavior is expected.

AGENT_RESTART: Strata agent requires to be restarted due to an unrecoverable exception, %s
Severity: Error
Explanation: An exception has occurred on the switch. StrataAgent will be restarted.
Recommended Action: No action is required – this message is for information only.

CONFIG_CHANGE: Configuration change requires the Strata agent %s to restart
Severity: Info
Explanation: Configuration change requires the switch ASIC to be reconfigured, requiring the Strata agent to restart.
Recommended Action: No action is required – this message is for information only.

FABRIC_LINK_ERR_DISABLED: Fabric link %s is disabled due to errors %s
Severity: Error
Explanation: Fabric interface is disabled when its link fails to come up or there are too many flaps
Recommended Action: Remove and re-insert linecard or fabric card the impacted fabric link connects to

FABRIC_LINK_FLAP: Fabric link %s is flapping
Severity: Warning
Explanation: Link on fabric interface comes up and down while connected to its peer interface
Recommended Action: Remove and re-insert linecard or fabric card the impacted fabric link connects to

HARDWARE_HOT_REMOVAL: Detected hardware hot removal in Strata switching ASIC %s
Severity: Info
Explanation: A hardware hot removal was detected in a Strata switching ASIC.
Recommended Action: No action is required – this message is for information only.

HITLESS_INIT_INTF_POSSIBLE_FLAP: Link may have flapped on %s while the forwarding agent was down.
Severity: Info
Explanation: Possible link flap was detected on an interface while the forwarding agent was down due to hitless restart.
Recommended Action: No action is required – this message is for information only.

HITLESS_RESTART_MMU_SCHED_CHANGED: MMU scheduler structure is changed during agent hitless restart, the StrataAgent will restart in normal mode, resulting in forwarding outage.
Severity: Info
Explanation: When StrataAgent restarts in hitless mode, MMU scheduler structure is checked to make sure software and hardware is in sync, if not, switch ASIC will be reconfigured, requiring the StrataAgent to restart in normal mode.
Recommended Action: This behavior is expected.

HITLESS_RESTART_TIMEOUT: Hitless restart of StrataAgent timed out. The agent will restart in normal mode, resulting in a forwarding outage.
Severity: Error
Explanation: StrataAgent failed to determine link statuses for all interfaces within the allotted time during hitless restart. The agent will restart in normal mode, resulting in a forwarding outage.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MMU_QUEUE_RESERVED_INVALID: Request to reserve %d bytes of memory for the MMU %s cannot be satisfied.
Severity: Info
Explanation: The number of bytes requested exceeds available memory.
Recommended Action: Reduce the amount of memory that should be reserved by reconfiguring the trident mmu queue.

MODULE_RESET: Switch %s restarting. Cause: %s
Severity: Info
Explanation: A switch may restart due to configuration change or software defect. Restarting one switch may cause other switches to restart. Please see cause for more information.
Recommended Action: No action is required – this message is for information only.

MPLS_ENTRY_RESOURCE_FULL: Hardware resources are insufficient to add an MPLS route
Severity: Error
Explanation: The switch is unable to program the MPLS route for this action due to insufficient hardware resources. Traffic forwarding will not happen via this MPLS route.
Recommended Action: Reconfigure your network to reduce the number of MPLS routes in theswitch.

MPLS_MAC_DA_PROFILE_TABLE_FULL: Hardware resources are insufficient to add an MPLS adjacency for %s
Severity: Error
Explanation: The switch is unable to create a destination MAC profile for the MPLS entry due to insufficient hardware resources. Traffic forwarding will not happen to this MAC address.
Recommended Action: Reconfigure your network to reduce the number of MPLS entries in theswitch, or use less interfaces for egress MPLS traffic.

MPLS_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to add an MPLS adjacency (%d)
Severity: Error
Explanation: The switch is unable to program the nexthop for the MPLS entry due to insufficient hardware resources. Traffic forwarding will not happen to this MPLS nexthop/destination.
Recommended Action: Reconfigure your network to reduce the number of MPLS nexthops in theswitch.

MPLS_RESERVED_ENTRY_PROGRAMMING_FAILURE: Programming failure of MPLS table for required resources (label %d)
Severity: Error
Explanation: The switch is unable to program a reserved entry in a hardware table that is necessary for MPLS to function properly. Traffic forwarding of MPLS packets and other MPLS actions might not work.
Recommended Action: Try power cycling the switch. This problem should not occur under normal operation. Likely the hardware is stuck in a bad state.

MPLS_VC_AND_SWAP_TABLE_FULL: Hardware resources are insufficient to add an MPLS %s label
Severity: Error
Explanation: The switch is unable to program the nexthop for the MPLS entry due to insufficient hardware resources. The MPLS action will not take effect on this label.
Recommended Action: Reconfigure your network to reduce the number of MPLS swap/push labels in the switch.

PORTGROUP_MODE_CHANGE: Change in port-group %s configuration, %s has been enabled, the StrataAgent will restart
Severity: Info
Explanation: When a QSFP+ port or SFP+ port is enabled or disabled the switch ASIC must be reconfigured, requiring the StrataAgent to restart.
Recommended Action: No action is required – this message is for information only.

RESERVED_HOST_TABLE_EXCEEDED: The reserved value chosen for the host entries exceeds the current number of available entries. Reserving only %d entries.
Severity: Info
Explanation: The number of entries reserved in the host table cannot exceed the current table capacity. The actual number of entries reserved is lower than the configured one.
Recommended Action: No action is required – this message is for information only.

RXDMASTUCKERROR: RX Packet DMA Stuck Error occurred in StrataAgent chip %s
Severity: Error
Explanation: A fatal PCIE Error affecting cpu packet DMA occurred in a Strata switching ASIC. Strata agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

SCHEDULER_MODE_CHANGE: Switch scheduler configuration changed to %s, the forwarding agent will restart.
Severity: Info
Explanation: When the switch scheduler configuration is changed the switch ASIC must be reconfigured, requiring the forwarding agent to restart.
Recommended Action: No action is required – this message is for information only.

SYSTEM_RESET: All switches restarting. Cause: %s
Severity: Info
Explanation: Some configuration changes require all switches to restart.
Recommended Action: No action is required – this message is for information only.

TABLE_MODE_CHANGE: Operating mode for %s table changed to %d
Severity: Info
Explanation: Table operating mode changed. Restarting Strata agent
Recommended Action: No action is required – this message is for information only.

TABLE_MODE_CONFLICT_URPF: uRPF is enabled in hardware. Operating mode for %s table cannot be changed to %d.
Severity: Info
Explanation: uRPF can only be configured when the table is in routing mode 2 or 4, and forwarding mode not 4. No other modes are supported with uRPF configuration.
Recommended Action: No action is required – this message is for information only.

TABLE_MODE_NO_CONFLICT_URPF: uRPF is disabled in hardware. Operating mode for %s table changed to configured mode %d.
Severity: Info
Explanation: Reverting the operating mode of routing tcam/forwarding table to configured value. uRPF disabled in hardware and no longer causes any conflicts with the configured value
Recommended Action: No action is required – this message is for information only.

TEMP_SENSOR_INVALID: Switch sensor %d on %s is reporting an invalid temperature (%f).
Severity: Warning
Explanation: The specified temp sensor returned an invalid temperature reading. This can happen intermittently but should not persist.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXDMASTUCKERROR: TX Packet DMA Stuck Error occurred in StrataAgent chip %s
Severity: Error
Explanation: A fatal PCIE Error affecting cpu packet DMA occurred in a Strata switching ASIC. Strata agent restarted in order to recover from this error.
Recommended Action: No action is required – this message is for information only.

UNEXPECTED_L2MOD_FIFO_MAC_EVENT: An unexpected l2mod fifo mac event is received. msg = %s
Severity: Debug
Explanation: An unexpected l2mod fifo mac event is received.
Recommended Action: No action is required – this message is for information only.

UNEXPECTED_RESTART: Unexpected restart of Strata agent %s occurred
Severity: Error
Explanation: Unexpected restart of the Strata agent occurred.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

URPF_CONFLICT_TABLE_MODE: uRPF cannot be configured in hardware. %s table mode %d is not supported with uRPF configuration.
Severity: Info
Explanation: uRPF can only be configured when the table is in routing mode 2 or 4, and forwarding mode not 4. No other modes are supported with uRPF configuration.
Recommended Action: No action is required – this message is for information only.

URPF_HW_RESOURCE_FULL: Insufficient TCAM resources for programming uRPF ACL entries.
Severity: Error
Explanation: The switch is unable to program ACL entries needed for uRPF due to insufficient TCAM resources. As a result, uRPF will not be enabled in hardware.
Recommended Action: Reconfigure your ACLs to free up enough resources for uRPF.

VIRTUALPORT_RESOURCE_FULL: Hardware resources are insufficient to add virtual port for %s
Severity: Error
Explanation: The switch is unable to program virtual port (remote VTEP or edge vlan-port pair) for the vxlan end point due to insufficient hardware resources. Traffic forwarding will not happen on this virtual port.
Recommended Action: Reconfigure the network to reduce the number of entries in the hardware table like remote VTEPs or edge vlan-port pairs.

VLANXLATE_RESOURCE_FULL: Hardware resources are insufficient to add %s
Severity: Error
Explanation: The specified entry could not be programmed due to insufficient hardware resources. Traffic forwarding will not happen on the specified entry.
Recommended Action: Reconfigure the network to reduce the number of entries in the hardware table like vlan mappings, edge vlan-port pairs or vlan-vni mappings.

VLAN_ACL_SHARING_MODE_CHANGE: Change in resource sharing behavior for ACLs applied on VLAN interfaces
Severity: Info
Explanation: The forwarding agent will restart to share/unshare ACL hardware resources attached across multiple VLAN interfaces
Recommended Action: No action is required – this message is for information only.

VXLAN_MCAST_RESOURCE_FULL: Hardware resources are insufficient to add vxlan multicast group
Severity: Error
Explanation: The switch is unable to program multicast group for vxlan due to insufficient hardware resources. Flood traffic may not be sent to all the ports in vlan.
Recommended Action: Reconfigure your network to reduce the number of multicast groups in the switch.

VXLAN_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to add vxlan port %s for vlan %d
Severity: Error
Explanation: The switch is unable to program nexthop for the vxlan port due to insufficient hardware resources. Traffic forwarding will not happen on this port.
Recommended Action: Reconfigure your network to reduce the number of nexthop entries in theswitch.

VXLAN_PORT_TO_NEXTHOP_OVERLAP: Vxlan module (%d), port (%d) to nexthop (%d) table overlap %s
Severity: Info
Explanation: Vxlan tunnels resolved through same physical port do not share first hop router. Some of the tunnels may not be reachable.
Recommended Action: Reconfigure your network so that tunnels resolved through same physical port share the same first hop router.

VXLAN_RECIRC_CHANNEL_NOT_CONFIGURED: Recirc-channel has not been configured for use with Vxlan routing
Severity: Error
Explanation: A Recirc-channel interface with vxlan features is required for proper functioning of flows involving routing and Vxlan encap/decap
Recommended Action: Configure a Recirc-channel, and enable vxlan features on it

VXLAN_ROUTING_RESOURCE_FULL: Unable to program router MAC address %s in VLAN %d due to hardware resource exhaustion. Vxlan routing may not work as expected in this VLAN.
Severity: Warning
Explanation: The specified MAC address could not be programmed into the switching ASIC due to hardware resource exhaustion. This MAC address is pointing to an internal recirculation port and is used for Vxlan routing. Hence, Vxlan routing may not work as expected while the system is in this state.
Recommended Action: No action is required – this message is for information only.

VXLAN_ROUTING_RESOURCE_NORMAL: Router MAC address %s in VLAN %d was successfully programmed in hardware.
Severity: Warning
Explanation: The specified MAC address was successfully programmed into the switching ASIC. Normal vxlan routing should resume in this VLAN.
Recommended Action: No action is required – this message is for information only.

WATCHDOG_POWERCYCLE: Power cycling %s due to watchdog timeout.
Severity: Error
Explanation: A card power cycle is used to attempt recovery of a non-responsive switch.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.81 SYS Messages

CLI_HOSTNAME_INVALID: Configured hostname '%s' is invalid
Severity: Error
Explanation: The configured hostname is invalid and has been ignored. The hostname must contain only alphanumeric characters, '.' and '-'. It must begin and end with an alphanumeric character.
Recommended Action: Configure a valid hostname.

CLI_SCHEDULER_ABORT: Execution of scheduled CLI execution job '%s' was aborted due to an error: %s
Severity: Warning
Explanation: Scheduled execution of a CLI command was aborted. The output of that command has been stored in a log file on flash if max-log-files ¿ 0.
Recommended Action: Please try to execute the CLI command interactively to make sure it works fine.

CLI_SCHEDULER_FILESYSTEM_FULL: Execution of scheduled CLI execution job '%s' was aborted due to flash: filesystem being full
Severity: Warning
Explanation: Scheduled execution of a CLI command was aborted due to lack of space in flash: filesystem.
Recommended Action: Please delete unused files to free up space.

CLI_SCHEDULER_JOB_COMPLETED: The scheduled CLI execution job '%s' completed successfully.%s
Severity: Debug
Explanation: A scheduled CLI command successfully executed. The output of that command is stored in a log file on flash if max-log-files ¿ 0.
Recommended Action: No action is required – this message is for information only.

CLI_SCHEDULER_SKIP: Execution of scheduled CLI execution job '%s' was skipped
Severity: Notice
Explanation: Scheduled execution of a CLI command was skipped since previous execution for this job is yet to complete.
Recommended Action: This may be due to CLI command taking long to complete. Please try to increase execution interval to a larger value.

COMMAND_REQUEST_ERROR: Error (%s) on command execution
Severity: Warning
Explanation: Unexpected error caught during the execution of the command.
Recommended Action: No action is required – this message is for information only.

CONFIG_E: Enter configuration mode from %s by %s on %s (%s)
Severity: Notice
Explanation: A network administrator has entered global config mode or updated the system configuration from a configuration file.
Recommended Action: No action is required – this message is for information only.

CONFIG_I: Configured from %s by %s on %s (%s)
Severity: Notice
Explanation: A network administrator has exited global config mode or updated the system configuration from a configuration file.
Recommended Action: No action is required – this message is for information only.

CONFIG_REPLACE_FAILURE: Configuration replace operation by %s with %s failed, on %s (%s)
Severity: Error
Explanation: A network administrator has attempted to replace the running configuration of the system, but the operation failed. The running configuration of the system has not changed.
Recommended Action: No action is required – this message is for information only.

CONFIG_REPLACE_SUCCESS: User %s replaced running configuration with %s successfully on %s (%s)
Severity: Notice
Explanation: A network administrator has replaced the running configuration of the system successfully.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_ABORTED: User %s aborted configuration session %s on %s (%s)
Severity: Notice
Explanation: A network administrator has aborted a configuration session, thereby having no effect on the running configuration of the system.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_CONFIRMED_SUCCESS: User %s committed session %s on %s (%s), pending confirmation
Severity: Notice
Explanation: A network administrator has commit confirmed aconfiguration session, thereby modifying the running configuration of the system temporarily.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_CONFIRM_ABORT: The last commit confirm operation has been aborted. The system config has been rolled back.
Severity: Notice
Explanation: Commit confirm has been aborted manually.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_CONFIRM_FAILURE: User %s commit confirm operation in configuration session %s failed on %s (%s)
Severity: Notice
Explanation: This failure happened because another session is in confirming state.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_CONFIRM_TIMEOUT: The last commit confirm operation has been aborted due to timeout. The system config has been rolled back.
Severity: Notice
Explanation: Commit confirm has timed out.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_FAILURE: User %s committed configuration session %s with errors on %s (%s)
Severity: Error
Explanation: A network administrator has commited a configuration session, but the operation failed. The system may be in an inconsistent state.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_SUCCESS: User %s committed configuration session %s successfully on %s (%s)
Severity: Notice
Explanation: A network administrator has commited a configuration session, thereby modifying the running configuration of the system.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_DELETED: User %s deleted configuration session %s on %s (%s)
Severity: Notice
Explanation: A network administrator has deleted a configuration session, thereby having no effect on the running configuration of the system.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_ENTERED: User %s entered configuration session %s on %s (%s)
Severity: Notice
Explanation: A network administrator has entered a configuration session.
Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_EXITED: User %s exited configuration session %s on %s (%s)
Severity: Notice
Explanation: A network administrator has exited a configuration session without committing or aborting, thereby having no effect on the running configuration fo the system.
Recommended Action: No action is required – this message is for information only.

CONFIG_STARTUP: Startup config saved from %s by %s on %s (%s).
Severity: Notice
Explanation: A network administrator has saved the system's startup configuration.
Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_FAILED: Event handler action %s did not complete with exit code 0: %s
Severity: Notice
Explanation: Event handler action did not exit normally. Check the logs found at /var/log/event/eventName for more information and also examine the bash commands configured to run on activation if the failure persists.
Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_FINISHED_PAST_EXPECTED: Event handler action %s finished running, but ran longer than expected.
Severity: Warning
Explanation: Event handler action has finished, but took longer to run than the expected action timeout.
Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_RUNNING_PAST_EXPECTED: Event handler action %s with PID %d is running longer than expected.
Severity: Warning
Explanation: Currently running event handler action is running longer than the expected action timeout.
Recommended Action: Speed up the action or increase the timeout.

EVENT_TRIGGERED: Event handler %s was activated
Severity: Info
Explanation: Event handler actions are configured from Cli to run when certain conditions are met. To see currently configured event handlers run 'show event-handler' from enabled mode.
Recommended Action: No action is required – this message is for information only.

KERNEL_PANIC: Reboot due to kernel panic
Severity: Error
Explanation: The system rebooted due to a kernel panic.
Recommended Action: This may indicate a serious hardware or software problem. Contact your customer support representative.

LOGMSG_ALERT: Message from %s on %s (%s): %s
Severity: Alert
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_CRIT: Message from %s on %s (%s): %s
Severity: Critical
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_DBG: Message from %s on %s (%s): %s
Severity: Debug
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_EMRG: Message from %s on %s (%s): %s
Severity: Emergency
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_ERR: Message from %s on %s (%s): %s
Severity: Error
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_INFO: Message from %s on %s (%s): %s
Severity: Info
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_NOTICE: Message from %s on %s (%s): %s
Severity: Notice
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

LOGMSG_WARN: Message from %s on %s (%s): %s
Severity: Warning
Explanation: As a result of 'send log' command from the CLI.
Recommended Action: No action is required – this message is for information only.

PLUGIN_LOAD_FAILED: Unable to load plugin %s, %s
Severity: Error
Explanation: A plugin could not be loaded. The functionality provided by the plugin is not available. Please check the plugin and restart the agent if necessary.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PORT_ID_ERROR: Unable to allocate a port ID for interface %s
Severity: Alert
Explanation: No unallocated port ID's are available.
Recommended Action: No action is required – this message is for information only.

RESTART_SERVICE: Service %s is not running. Attempting to restart it.
Severity: Warning
Explanation: Periodic health monitoring found that the said service was not running, and attempted to restart it.
Recommended Action: Check if there is a resource conflict which prevents the said service from running. For example, the same TCP listener port may have been allocated to more than one service.

SCHEDULED_RELOAD_FAILED: Reload scheduled to occur at %s failed%s
Severity: Error
Explanation: An error occurred while trying to restart the system. Scheduled reload may not function properly
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SERVICE_FILESYSTEM_FULL: Write to %s for service '%s' failed because the filesystem is full
Severity: Warning
Explanation: A service attempted to write a file and failed because the filesystem is full
Recommended Action: Please delete unused files to free up space.

SSH_HOST_KEY_REGENERATED: SSH host keys associated with a different system (mac address %s). Regenerating SSH host keys.
Severity: Info
Explanation: Software has noticed that the SSH host keys on this system are associated with the mac address of a different system. This can happen in a modular system when a supervisor is moved to a different chassis. New SSH host keys have been generated for the system.
Recommended Action: No action is required – this message is for information only.

SYSTEM_RESTARTED: System restarted
Severity: Notice
Explanation: The system has restarted
Recommended Action: No action is required – this message is for information only.

SYSTEM_WARMUP_FAILED: System warmup after cli configuration by %s on %s (%s) failed
Severity: Notice
Explanation: The system is taking a long time to warm up after the last configuration request from the Cli. This may mean an unusually large configuration change was requested from the Cli, which resulted in prolonged processing by the switching software.
Recommended Action: No action is needed. However avoid loading the switch with large amount of configuration changes in quick succession.

2.82 SYSDB Messages

STARTUP_CONFIG_ERROR: Unable to load initial configuration (code %d)
Severity: Emergency
Explanation: Error occurred while loading the initial system configuration. Exiting.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

STARTUP_CONFIG_PARSE_ERROR: Errors encountered in parsing the startup-config
Severity: Error
Explanation: One or more errors were encountered while parsing the startup-config due to invalid, incomplete and/or unavailable commands.
Recommended Action: Please run 'show startup-config errors' to look at the exact error(s) and fix them in the startup-config.

STARTUP_CONFIG_TIMEOUT: Timed out loading initial configuration
Severity: Emergency
Explanation: Loading the initial system configuration took longer than 60000 seconds.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.83 TAPAGG Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to program all Tap Ports/TapAgg Policy-Maps
Severity: Error
Explanation: The switch is unable to program all Tap Ports/TapAgg Policy Maps due to insufficient hardware resources.
Recommended Action: Reconfigure your TapAgg Policy-Maps or Tap ports.

OPERATIONAL_MODE: Tap aggregation %s
Severity: Info
Explanation: Tap aggregation feature is enabled or disabled. Some features and/or ports may be disabled if their configuration is not compatible with the current tap aggregation mode. In exclusive mode the layer2/layer3 protocols may not work as expected
Recommended Action: No action is required – this message is for information only.

OPERATIONAL_MODE_CHANGE: Change of operational mode from tap aggregation to normal or vice versa will restart the %s forwarding agent.
Severity: Info
Explanation: The forwarding ASIC will be re-initialized for the new mode on fowarding agent restart
Recommended Action: No action is required – this message is for information only.

POLICY_HW_RESOURCE_FULL: Hardware resources are insufficient to program all Tap Policies
Severity: Error
Explanation: The switch is unable to program all TapAgg Policy Maps due to insufficient hardware resources.
Recommended Action: Reconfigure your TapAgg Policy-Maps

2.84 TCP Messages

BADAUTH: Invalid/Unexpected/No MD5 digest from %s(%d) to %s(%d)
Severity: Notice
Explanation: Passwords of BGP peers are not identical
Recommended Action: Make sure that passwords, if configured, are configured on both peers, and that they are identical.

2.85 TRANSCEIVER Messages

AUTHENTICATION_FAILED: The transceiver for interface %s has failed authentication. manufacturer: %s model: %s rev %s serial number %s
Severity: Warning
Explanation: The specified transceiver has failed authentication. It may be counterfeit.
Recommended Action: Contact support@arista.com immediately.

AUTHENTICATION_PROTOCOL_FAILED: The transceiver for interface %s is not responding as expected during authentication. manufacturer: %s model: %s rev %s serial number %s
Severity: Warning
Explanation: The specified transceiver has failed authentication. It may be counterfeit.
Recommended Action: Contact support@arista.com immediately.

DISABLED: The transceiver for interface %s has been disabled because it is not qualified. (manufacturer %s model %s serial number %s)
Severity: Error
Explanation: The transceiver is not qualified. It has been disabled.
Recommended Action: Replace the transceiver with a qualified one.

EEPROMREADFAILED: Timeout while trying to read ID EEPROM for transceiver %s
Severity: Error
Explanation: The switch was unable to identify a newly discovered transceiver by reading its ID EEPROM. Information about the transceiver is unavailable, and the port can not be brought up.
Recommended Action: Try re-inserting the transceiver. If the problem persists, contact your technical support representative.

INCOMPATIBLE: The transceiver for interface %s has been disabled because it is not compatible. (transceiver type %s manufacturer %s model %s serial number %s)
Severity: Error
Explanation: The transceiver is not compatible. It has been disabled
Recommended Action: Replace the transceiver with a compatible one

SPEED_UNSUPPORTED: The transceiver for interface %s is speed %dG, which the interface does not support.
Severity: Error
Explanation: The transceiver is a speed which the interface does not support.
Recommended Action: Replace the transceiver with one which is 10G or 40G.

UNLOCK_METHOD_OBSOLETE: Obsolete transceiver unlock method ignored.
Severity: Warning
Explanation: An obsolete transceiver unlock method is configured on the switch.
Recommended Action: Disable the obsolete transceiver unlock method.

2.86 TUNNEL Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to program all tunnels.
Severity: Error
Explanation: The switch is unable to program all tunnels due to insufficient hardware resources. Packets to/from one or more tunnels may not get forwarded in hardware.
Recommended Action: Reconfigure your network to reduce the number of tunnels in the switch.

HW_RESOURCE_NORMAL: Hardware resources to program tunnels are recovered.
Severity: Error
Explanation: The switch was able to program all tunnels in hardware.
Recommended Action: No action is required – this message is for information only.

2.87 VM Messages

SERVICE_FAILED: Failed to start the virtual machine service
Severity: Error
Explanation: Failed to start the virtual machine service. Configured virtual machines may not be running properly.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.88 VMTRACERSESS Messages

ADD_VMENTRY: VM %s nic %s mac %s portgroup %s vlan %s switch %s host %s datacenter %s intf %s
Severity: Info
Explanation: A new VM has been added to the VM Tracer database
Recommended Action: No action is required – this message is for information only.

DEL_VMENTRY: VM %s nic %s mac %s portgroup %s vlan %s switch %s host %s datacenter %s intf %s
Severity: Info
Explanation: VM has been deleted from VM Tracer database
Recommended Action: No action is required – this message is for information only.

RESTART_CONFIG: Agent restart due to configuration change
Severity: Info
Explanation: VmTracerSess agent is restarting due to configuration change
Recommended Action: No action is required – this message is for information only.

2.89 VMWAREVI Messages

AGENT_RESTART: Agent restarting due to network error.
Severity: Error
Explanation: This error indicates that there was loss of connectivity after a session was successfully established and the agent is restaring.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

COMMUNICATION_ERROR: Loss of connectivity to vCenter.
Severity: Error
Explanation: This error indicates that there was loss of connectivity after a session was successfully established with vCenter.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONNECT_FAILED: Failed to connect to vCenter. %s
Severity: Error
Explanation: This error indicates that the VMware VDS agent could not connect to vCenter.
Recommended Action: Check the configured URL in vmware vswitch session configuration and verify network connectivity to vCenter.

LOGIN_ERROR: Login to vCenter failed. %s
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not login to vCenter using the configured username and password
Recommended Action: Check the configured credentials in the VMware vSwitch session configuration.

RPC_FAULT: The RPC %s failed.
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not complete the RPC call to vCenter.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VCENTER_CONNECTED: VmTracer agent successfully connected to vCenter %s.
Severity: Info
Explanation: The VmTracer agent was successfully able to establish connection with the vCenter
Recommended Action: No action is required – this message is for information only.

VMOTION_END: VM %s migrated to %s.
Severity: Info
Explanation: Vmotion completed on the VM
Recommended Action: No action is required – this message is for information only.

VMOTION_STARTED: VM %s in vmotion from %s to %s.
Severity: Info
Explanation: Vmotion triggered on the VM
Recommended Action: No action is required – this message is for information only.

2.90 VMWAREVS Messages

CONNECTION_FAILED: Failed to connect to VShield Manager.
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not connect to VShield Manager.
Recommended Action: Check the configured URL in VM Tracer session configuration and verify network connectivity to VShield Manager.

CONNECTION_SUCCESSFUL: Successfully connected to VShield Manager.
Severity: Info
Explanation: The VM Tracer agent was able to successfully establish connection with the VShield Manager
Recommended Action: No action is required – this message is for information only.

LOGIN_ERROR: Login to VShield Manager failed.
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not login to VShield Manager using the configured username and password.
Recommended Action: Check the configured credentials in the VM Tracer session configuration.

REST_FAULT: The REST request %s failed.
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not complete the REST request to VShield Manager.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SERVER: VM Tracer detected an internal error in VShield Manager.
Severity: Error
Explanation: This error indicates that the VM Tracer agent did not get a timely response to a request of VShield Manager. Check the health of the VShield Manager server.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

XML_FAULT: Unable to process XML from the REST request %s.
Severity: Error
Explanation: This error indicates that the VM Tracer agent could not process the xml returned from REST request of VShield Manager.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.91 VRF Messages

CREATED: VRF %s has been created with network namespace %s
Severity: Info
Explanation: The VRF instance has been successfully instantiated and The is now active.
Recommended Action: No action is required – this message is for information only.

CREATE_RETRY: Another attempt to create network namespace %s for VRF %s will be made
Severity: Warning
Explanation: The network namespace corresponding to the VRF could not be created. Another attempt to create the network namespace will be made.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DELETED: VRF %s has been deleted
Severity: Info
Explanation: The VRF instance has been successfully deleted.
Recommended Action: No action is required – this message is for information only.

DELETE_RETRY: Another attempt to delete the network namespace %s for VRF %s will be made
Severity: Warning
Explanation: The network namespace corresponding to the VRF could not be deleted. Another attempt to delete the network namespace will be made.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MAP_OVERFLOW: A VRF table used internally to map VRF names to VRF identifiers has overflowed at %u values.
Severity: Error
Explanation: When this happens, the device may not be able to forward traffic in some VRFs. This is likely caused by configuring more VRFs that than the device can support, so a possible solution would be to unconfigure some VRFs.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

STUCK_PROCESS: Process %s (pid %d) is still using the namespace for VRF %s, %s
Severity: Warning
Explanation: The process with the listed pid has not exited and is thus preventing the namespace for the VRF from being removed.
Recommended Action: No action is required – this message is for information only.

2.92 VRRP Messages

ADDRESS_INCOMPATIBLE: VRRP MAC address %s in %s is incompatible with the most significant bytes of the currently programmed addresses %s. Addresses may only vary in the lower 3 bits.
Severity: Error
Explanation: VRRP MAC addresses may only differ in the lower 3 bits.
Recommended Action: Remove the incompatible VRRP groups.

ADDRESS_RECOVERED: Successfully programmed VRRP MAC address %s in %s that was previously unable to fit in hardware.
Severity: Error
Explanation: Successfully programmed VRRP MAC address that previously was unable to fit in hardware.
Recommended Action: No action is required – this message is for information only.

AND_MLAG_PEER_MAC_CONFIGURATION_CONFLICTING: VRRP configuration will be ignored because Mlag peerMac is configured.
Severity: Error
Explanation: VRRP and Mlag peerMac cannot be configured at the same time.
Recommended Action: Remove either the VRRP or Mlag peerMac configuration.

AND_MLAG_PEER_MAC_CONFIGURATION_NO_LONGER_CONFLICTING: %s configuration now in effect because %s was deconfigured.
Severity: Error
Explanation: VRRP and Mlag peerMac configuration no longer conflicting.
Recommended Action: No action is required – this message is for information only.

AND_VARP_CONFIGURATION_CONFLICTING: VRRP configuration will be ignored because VARP is configured.
Severity: Error
Explanation: VRRP and VARP cannot be configured at the same time.
Recommended Action: Remove either the VRRP or VARP configuration.

AND_VARP_CONFIGURATION_NO_LONGER_CONFLICTING: %s configuration now in effect because %s was deconfigured.
Severity: Error
Explanation: VRRP and VARP configuration no longer conflicting.
Recommended Action: No action is required – this message is for information only.

BFD_EVENT: %s Grp %d Taking over %s and transitioning to master
Severity: Notice
Explanation: The VRRP router is transitioning to master because the BFD session goes down
Recommended Action: No action is required – this message is for information only.

BFD_MISMATCH: %s Grp %d Bfd peer %s does not match master's address %s
Severity: Warning
Explanation: The Bfd peer configured in Cli does not match the master's Ip address in advertisement
Recommended Action: No action is required – this message is for information only.

CONFIGURED_ADDRESSES_COMPATIBLE: VRRP configuration is now compatible with hardware.
Severity: Error
Explanation: VRRP configuration is now compatible with hardware.
Recommended Action: No action is required – this message is for information only.

CONFIGURED_ADDRESSES_INCOMPATIBLE: Configured VRRP groups result in the following incompatible addresses: %s. Addresses may only vary in the lower 3 bits.
Severity: Error
Explanation: VRRP MAC addresses may only differ in the lower 3 bits.
Recommended Action: Remove the incompatible VRRP configuration.

INCOMPATIBLE_WITH_MLAG_PEER_MAC: Ignoring VRRP MAC address %s in %s because Mlag peerMac is configured.
Severity: Error
Explanation: VRRP and Mlag peerMac cannot be configured at the same time.
Recommended Action: Remove either the VRRP or Mlag peerMac configuration.

INCOMPATIBLE_WITH_VARP: Ignoring VRRP MAC address %s in %s because VARP is configured.
Severity: Error
Explanation: VRRP and VARP cannot be configured at the same time.
Recommended Action: Remove either the VRRP or VARP configuration.

STATECHANGE: %s Grp %d state %s -¿ %s
Severity: Notice
Explanation: The VRRP router has changed state.
Recommended Action: No action is required – this message is for information only.

UNPROGRAMMED_ADDRESS_NO_LONGER_CONFIGURED: No longer need to program VRRP MAC address %s in %s that was previously unable to fit into hardware.
Severity: Error
Explanation: No longer need to program VRRP MAC address that was previously unable to fit into hardware.
Recommended Action: No action is required – this message is for information only.

2.93 VXLAN Messages

DYNA_VLANVNI_CONFLICT_CLI_VLAN: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because VLAN %d has explicitly been mapped to a different VNI (%d).
Severity: Info
Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has been mapped to a different VNI through a CLI configuration.
Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the configured VLAN to VNI mapping. If you are deliberately overriding the dynamic configuration, no action is required

DYNA_VLANVNI_CONFLICT_CLI_VNI: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because VNI %d has explicitly been mapped by a different VLAN (%d).
Severity: Info
Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VNI has been mapped by a different VLAN through a CLI configuration.
Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the configured VLAN to VNI mapping. If you are deliberately overriding the dynamic configuration, no action is required

DYNA_VLANVNI_CONFLICT_PEER: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because it conflicts with other dynamic mappings (%d to %d from %s).
Severity: Warning
Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has been dynamically mapped to a different VNI, or vice versa. All conflicting mappings from dynamic sources have been ignored.
Recommended Action: Verify the dynamic VLAN to VNI mapping sources, or configure the intended mapping directly using the CLI configuration for the VTI.

DYNA_VLANVNI_INVALID_CONFIG: Dynamic VLAN to VNI mapping from %s has been ignored: a %s VLAN config cannot be applied to %s port.
Severity: Warning
Explanation: A dynamic VLAN to VNI mapping has been ignored because we currently only support non-zero VLAN mappings on trunk ports and zero VLAN mappings on access ports.
Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the switch port mode of the interface.

DYNA_VLANVNI_INVALID_CONFIG_INTERNAL: Dynamic VLAN to VNI mapping from %s has been ignored: VLAN %d has already been allocated internally.
Severity: Warning
Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has already been internally reserved by a routed port.
Recommended Action: Change the VLAN configured in the mapping.

DYNA_VLANVNI_INVALID_CONFIG_PEERLINK: Dynamic VLAN to VNI mapping from %s has been ignored: VLAN %d has already been allocated to the MLAG peer link SVI.
Severity: Warning
Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has already been allocated to the MLAG peer link SVI.
Recommended Action: Change the VLAN configured in the mapping.

DYNA_VLANVNI_INVALID_PORT_NAME: Dynamic VLAN to VNI mapping from %s has been ignored: unknown interface name %s.
Severity: Warning
Explanation: A dynamic VLAN to VNI mapping has been ignored because the interface name is invalid.
Recommended Action: Verify the dynamic VLAN to VNI mapping from the source.

HW_FLOOD_RESOURCE_FAILED: Internal failure %d detected while programming vxlan multicast tunnels %s.
Severity: Error
Explanation: The switch is unable to program all multicast tunnels due to internal failure. When the switch is unable to program multicast tunnels due to internal failure, it may drop certain packets in order to avoid potential routing loops in the network.
Recommended Action: To solve this issue, one can shut and no shut interface vxlan.If the problem still perisists, reconfigure the interface vxlan configuration.

HW_FLOOD_RESOURCE_FULL: Hardware resources are insufficient to program all vxlan multicast tunnels.
Severity: Error
Explanation: The switch is unable to program all multicast tunnels due to insufficient hardware resources. When the switch is unable to program multicast tunnels due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network.
Recommended Action: To solve this issue, reduce the number of vxlan in the system, followed by shut and no shut of interface vxlan.

HW_RESOURCE_CONFLICT: VXLAN hardware resources are already in use for IP NAT
Severity: Error
Explanation: The switch encountered resource conflict between IP NAT and VXLAN features. It will not be able to support both VXLAN and IP NAT at the same time.
Recommended Action: To solve this issue, remove both IP NAT and VXLAN on the switch and reconfigure only VXLAN. Please contact your technical support representative if you need additional assistance.

INVALID_VARP_VTEP_ADDRESS: VARP VTEP configuration has been ignored due to multiple secondary IP addresses on %s.
Severity: Error
Explanation: Configuration of VARP VTEP address is valid when there is only 1 secondary IP address on VXLAN source-interface
Recommended Action: Configure only 1 secondary IP address on VXLAN source-interface

LEARN_NOTALLOWED: Received VXLAN packet from VTEP %s for VNI %s, but that VTEP is not part of the set of trusted sources for dataplane learning.
Severity: Warning
Explanation: The switch is only doing VXLAN dataplane learning from VTEPs that have been configured as trusted using 'vxlan learn'.
Recommended Action: Please ensure that the VTEP configuration is consistent across all the switches. That might imply adding this VTEP to the vxlan learn list.

ROUTING_MULTICAST_INCOMPATIBLE: VXLAN routing is not supported if flood replication mode is multicast.
Severity: Error
Explanation: The switch encountered a VXLAN-enabled VLAN with SVI configured, while flood replication mode for the VTI is configured as multicast.
Recommended Action: To solve this issue, remove multicast flood replication configuration on VTI and configure flood replication mode as headend, or, remove the SVI configuration on the VLAN. Please contact your technical support representative if you need additional assistance.

ROUTING_VNI_LENGTH_UNSUPPORTED: VXLAN routing is not supported on a VLAN with VNI greater than 65535.
Severity: Error
Explanation: The switch encountered a VXLAN-enabled VLAN with SVI configured, and its mapped VNI value is greater than 65535 (or 16 bits).
Recommended Action: To solve this issue, remove the invalid VNI mapping on the SVI VLAN and reconfigure new VLAN to VNI mapping with vni ¡= 65535, or, remove the SVI configuration on the VLAN. Please contact your technical support representative if you need additional assistance.

STATIC_VLANVNI_INVALID_CONFIG_INTERNAL: Configured VLAN to VNI mapping has been ignored: VLAN %d has already been allocated internally.
Severity: Warning
Explanation: A configured VLAN to VNI mapping has been ignored because the specified VLAN has already been internally reserved by a routed port.
Recommended Action: Change the VLAN configured in the mapping.

STATIC_VLANVNI_INVALID_CONFIG_PEERLINK: Configured VLAN to VNI mapping has been ignored: VLAN %d has already been allocated to the MLAG peer link SVI.
Severity: Warning
Explanation: A configured VLAN to VNI mapping has been ignored because the specified VLAN has already been allocated to the MLAG peer link SVI.
Recommended Action: Change the VLAN configured in the mapping.

VLAN_UNSUPPORTED: VXLAN is not supported on VLAN 1.
Severity: Error
Explanation: Mapping VLAN 1 to a VXLAN VNI is unsupported on this platform.
Recommended Action: To solve this issue, remove the VNI mapping for VLAN 1. Please contact yourtechnical support representative if you need additional assistance.

VTEP_DEFAULT_ENTRY_HW_RESOURCE_FULL: VXLAN initialization failed due to insufficient hardware resources
Severity: Error
Explanation: The switch is unable to initialize VXLAN in hardware, so VXLAN forwarding may not work as expected.
Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

VTEP_MIRROR_HW_RESOURCE_FULL: Mirroring hardware resources are insufficient to program default vtep learning entry.
Severity: Error
Explanation: The switch is unable to program mirroring session for the default vtep learning entry. When the switch is unable to program this default entry, it will not be able to learn the remote vtep's or the remote mac addresses dynamically. Only statically configured remote vtep's and remote mac addresses work.
Recommended Action: To solve this issue, remove a mirroring session on the switch and reconfigure the vxlan. Please contact your technical support representative if you need additional assistance.

2.94 XMPP Messages

CLIENT_AUTHEN_FAIL: Authentication failure connecting to %s:%s
Severity: Error
Explanation: The authentication credentials provided are rejected by the configured XMPP server.
Recommended Action: Confirm the authentication credentials configured for the XMPP server are correct by checking with your server administrator.

CLIENT_CONNECTED: Connected to %s:%s with JID %s
Severity: Info
Explanation: The XMPP client is connected to the named server using the specified Jabber ID (JID)
Recommended Action: No action is required – this message is for information only.

CLIENT_DISCONNECTED: Connection to %s:%s closed
Severity: Info
Explanation: The connection between XMPP client and server closed
Recommended Action: No action is required – this message is for information only.

DNS_LOOKUP_FAILURE: DNS lookup for XMPP server %s failed: %s
Severity: Error
Explanation: There was a problem resolving the XMPP server host name using the DNS.
Recommended Action: Confirm the XMPP server hostname exists in the DNS, that your switch has DNS name servers configured, and that they are reachable.

GROUP_FORBIDDEN: Forbidden from joining switch group %s by server %s:%s
Severity: Error
Explanation: The XMPP server has explicitly banned this switch from joining the switch group
Recommended Action: Check with the XMPP multi-user chat room (switch group) owner as to why they have banned this switch.

GROUP_NOT_AUTHORIZED: Incorrect password for switch group %s
Severity: Error
Explanation: The XMPP server did not authorize the XMPP client to join the switch group. Configure the correct password on the switch group for the group named in the error
Recommended Action: Check with the XMPP multi-user chat room (switch group) owner what the password should be, and configure that under 'management xmpp' on the appropriate 'switch-group' line

GROUP_REGISTRATION_REQUIRED: Members-only switch-group %s requires pre-registration
Severity: Error
Explanation: The switch group is configured members-only, and this switch is not on the member list. The owner must add the switch to the member list.
Recommended Action: Contact the XMPP multi-user chat room (switch group) owner and ask to have this switch added to the room member list

2.95 ZTP Messages

CANCEL: Cancelling Zero Touch Provisioning
Severity: Notice
Explanation: Zero Touch Provisioning was cancelled at the CLI. The system will reboot with Zero Touch disabled.
Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD: Attempting to download the startup-config from %s
Severity: Notice
Explanation: Zero Touch Provisioning is attempting to download the startup-config or a config script from the URL specified in the received DHCP response. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD_FAIL: Failed to download the startup-config from %s. Error: %s
Severity: Warning
Explanation: Zero Touch Provisioning failed to download the startup-config or a config script from the URL specified in the received DHCP response.Check the URL specified in the DHCP response. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONFIG_DOWNLOAD_SUCCESS: Successfully downloaded %s from %s
Severity: Notice
Explanation: Zero Touch Provisioning successfully downloaded the startup-config or a config script from the URL specified in the received DHCP response.
Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD_TIMEOUT: Timed out trying to download the startup-config or a config script from %s after %u seconds
Severity: Warning
Explanation: Zero Touch Provisioning timed out trying to download the startup-config or a config script from the URL specified in the received DHCP response. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DHCP_QUERY: Sending DHCP request on %s
Severity: Notice
Explanation: Zero Touch Provisioning is trying to discover a DHCP server on the network. Zero Touch Provisioning will only accept a DHCP response with a valid DHCP option 67 present. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: No action is required – this message is for information only.

DHCP_QUERY_FAIL: Failed to get a valid DHCP response
Severity: Notice
Explanation: Zero Touch Provisioning failed to get a DHCP response with a valid DHCP option 67 answer from a server on the network. Check your DHCP server for proper Zero Touch Provisioning configuration. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: No action is required – this message is for information only.

DHCP_SUCCESS: DHCP response received on %s
Severity: Notice
Explanation: Zero Touch Provisioning successfully received a DHCP response with a valid DHCP option 67 present from a server on the network.
Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT: Executing the downloaded config script
Severity: Notice
Explanation: Zero Touch Provisioning is executing the downloaded config script.
Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT_FAIL: Config script exited with an error. Error code: %s
Severity: Warning
Explanation: Zero Touch Provisioning failed to execute the downloaded config script. This usually indicates a problem executing the config script or the config script exiting with a non zero return code.
Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_SCRIPT_SIGNALED: Config script exited with an uncaught signal. Signal code: %s
Severity: Warning
Explanation: Zero Touch Provisioning failed to execute the downloaded config script. This usually indicates a problem executing the config script.
Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_SCRIPT_SUCCESS: Successfully executed the downloaded config script
Severity: Notice
Explanation: Zero Touch Provisioning successfully executed the downloaded config script.
Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT_TIMEOUT: Timed out executing the downloaded config script after %u seconds
Severity: Warning
Explanation: Zero Touch Provisioning timed out after waiting long enough for the downloaded config script to complete execution. This usually indicates a problem with the config script.
Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

INIT: No startup-config found, starting Zero Touch Provisioning
Severity: Notice
Explanation: No startup-config was found on flash, the system has entered Zero Touch Provisioning mode and is actively trying to download the startup-config from a remote system. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: No action is required – this message is for information only.

INTERFACE_SPEED: Setting interface speed to %s for %s
Severity: Notice
Explanation: Set the global speed on all capable interfaces.
Recommended Action: No action is required – this message is for information only.

RELOAD: Rebooting the system
Severity: Notice
Explanation: Zero Touch Provisioning is rebooting the system after either a successful configuration of the system or because Zero Touch Provisioning was cancelled at the CLI
Recommended Action: No action is required – this message is for information only.

RETRY: Retrying Zero Touch Provisioning from the beginning (attempt %d)
Severity: Notice
Explanation: Zero Touch Provisioning is retrying from the beginning. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.
Recommended Action: No action is required – this message is for information only.

STARTUP_FILE_SYNC_FAIL: Failed to Synchronize the startup-config file with the standby
Severity: Notice
Explanation: rebooting the Active and Standby.
Recommended Action: No action is required – this message is for information only.

STARTUP_FILE_SYNC_TIMEOUT: Waiting on File Replicator to synchronize the startup-config
Severity: Notice
Explanation: with the Standby.
Recommended Action: No action is required – this message is for information only.